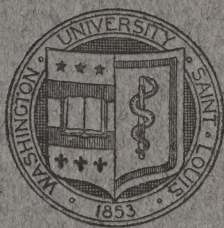


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1904/05

VOLUME II.

No. 4.

QUARTERLY BULLETIN
MEDICAL DEPARTMENT
OF
WASHINGTON UNIVERSITY



APRIL, 1904.

Office of Publication, 1806 Locust St.,
St. Louis, Mo.

Entered at St. Louis, Mo., as Second Class Matter.

QUARTERLY BULLETIN
OF THE
MEDICAL DEPARTMENT
OF
WASHINGTON UNIVERSITY

APRIL, 1904,

CONTAINING

The Courses of Instruction for 1904-1905

AND

A Catalogue of Officers and Students
For 1903-1904.

VOLUME II.

NUMBER 4.

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On the dates in heavy type, the regular exercises of the School will be suspended for holidays, for examinations and for commencement.

CALENDAR.

1904.

ENTRANCE EXAMINATION, conducted by an examiner appointed by the Chancellor of Washington University, will be held Friday, September 23, and Saturday, September 24, at 1806 Locust Street.

ACADEMIC YEAR will begin Monday, September 26.

EXAMINATIONS will be held Saturday, October 1, as follows: (a) for removal of conditions in special subjects; (b) for admission to advanced standing.

HOLIDAY, Thursday, November 24, Thanksgiving Day.

CHRISTMAS RECESS will begin Thursday, December 22, and end Wednesday, January 3, 1905.

1905.

MID-YEAR EXAMINATIONS will begin Monday, January 23, and end Saturday, January 28. During this week all other work will be suspended.

SECOND HALF-YEAR will begin Monday, January 30.

HOLIDAY, Wednesday, February 22, Washington's Birthday.

SPRING RECESS will begin Monday, March 20, and end Saturday, March 25.

EXAMINATIONS will be held from Monday, May 15, to Saturday, May 20, as follows: (a) in special subjects; (b) for removal of conditions; (c) for admission to the third year class and for graduation. During this week all other work will be suspended.

COMMENCEMENT will be held Thursday, May 25, 1905.

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GEORGE MOREY BARTLETT.

TREASURER:

WINFIELD SCOTT CHAPLIN.

Office in University Building, Beaumont and Locust Streets.

* Deceased.

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HERMAN TUHOLSKE,

HORATIO N. SPENCER.

* Deceased.

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Professor of Diseases of the Skin and Syphilis.

* Deceased.

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11

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* Deceased.

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WALTER BAUMGARTEN, A.B., M.D.,
Instructor in Clinical Chemistry and Microscopy.

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MARTIN JOSEPH GLASER, Ph.G.
A. JUDSON CHALKLEY, A.M.

ANATOMY.

HARRY F. LINCOLN, JR.
SAMUEL B. MCPHEETERS, A.B.

PHYSIOLOGICAL CHEMISTRY.

CHARLES MILTON ROSE.
JOSEPH WILLIAM HAYWARD.

HISTOLOGY.

CHARLES W. TOOKER,
MARSH PITZMAN, A.B.
AUGUST C. SCHULENBURG.

PATHOLOGY.

CHARLES LEONHARD KLENK.

PHARMACY.

ERNEST A. LE BIEN, Ph.G.

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Albert Taussig, M.D.

GENERAL INFORMATION.

On arriving in Saint Louis at the Union Station, students are within five minutes walk of the main building of the Medical Department, 1806 Locust Street. The offices of the School are in this building, and students are requested to come here for all information.

It would be to the advantage of students if they would register a few days in advance of the opening exercises and secure boarding-places, so that their studies may not be interrupted in the beginning.

Students may register and pay all fees at the office of the Dean which will be open daily throughout the year from 11 A. M. until 1 P. M. *Positively no students will be admitted for the session of 1904-1905 later than October 15; but students may matriculate for the session of 1905-6 at any time before or after this date.*

The officers of the School, or Y. M. C. A. of this department, will give students information as to rooms, boarding, etc. Board and lodging at a convenient distance from the School may be obtained at from sixteen to twenty dollars a month. In this connection attention is called to the new Washington University Club in which Students of the Medical Department are entitled to full privileges.

Physicians, or alumni, who may wish to receive regularly the Quarterly Bulletin are requested to make written application to the Dean of the Faculty. Notice of change of residence is desired. All further information may be obtained by addressing:

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WASHINGTON UNIVERSITY,
1806 Locust Street,
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WILLIS HALL, M.D. Clinical Lecturer.
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A. G. SCHLOSSSTEIN, M. D. Clinical Assistant.

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Clinical Professor HARRY MCC. JOHNSON Chief of Clinic.
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O. H. FISCHER, M.D. Clinical Assistant.

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Professor JOHN GREEN.

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W. A. SHOEMAKER, M.D.	Clinical Assistant.
J. W. CHARLES, M.D.	Clinical Assistant.
J. H. GROSS, M.D.	Clinical Assistant.
N. M. SEMPLE, M.D.	Clinical Assistant.

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GREENFIELD SLUDER, Clinical Lecturer.

FELIX PRINTZ, M.D.	Chief of Clinic.
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Professor JUSTIN STEER and Clinical Professor ELSWORTH SMITH.

L. H. HEMPELMANN, M.D. Chief of Clinic.

DEPARTMENT OF GYNECOLOGY.

Professor FRANK A. GLASGOW.

G. A. KEEHN, M.D. Clinical Assistant.

DEPARTMENT OF LARYNGOLOGY.

Professor EDGAR M. SENSENEY.

L. H. HEMPELMANN, M.D. Clinical Assistant.

DEPARTMENT OF DERMATOLOGY.

Professor JOSEPH GRINDON.

DEPARTMENT OF NERVOUS DISEASES.

M. A. BLISS, M.D.

DEPARTMENT OF GENITO-URINARY DISEASES.

Clinical Professor HARRY McC. JOHNSON.

N. W. AMOS, M.D. Clinical Assistant.

STAFF OF THE BETHESDA HOSPITAL AND
MATERNITY HOME.

Professor E. W. SAUNDERS Physician-in-Chief.
 W. L. JOHNSON, M.D. Chief of Children's Clinic.
 A. LEVY, M.D. Clinical Assistant Children's Clinic.
 B. W. MOORE, M.D., . Chief of Obstetrical Clinic, Maternity Home.
 F. M. GORDON, M.D. . Assistant in Obstetrical Clinic, Maternity Home.

ST. LOUIS CITY HOSPITAL.

Professor H. TUHOLSKE Surgery.
 Professor W. E. FISCHER Medicine.
 Professor N. B. CARSON Surgery.
 Professor H. G. MUDD Surgery.
 Clinical Professor ELSWORTH SMITH Medicine.
 GIVEN CAMPBELL, M.D. Neurology.

ST. LOUIS INSANE ASYLUM.

Professor F. R. FRY Mental Diseases.
 *E. C. RUNGE, M.D. Mental Diseases.

* Deceased.

BRIEF HISTORICAL SKETCH.

Early in the year 1899 the respective Faculties of the Saint Louis Medical College and of the Missouri Medical College, took certain preliminary steps toward the union of these two institutions. With this end in view both Faculties resigned, and in due course combined to form the Medical Department of Washington University.

The Missouri Medical College was founded in 1840, and with the exception of the years of the Civil War had given continuous instruction up to the end of the session of 1898-1899.

The Saint Louis Medical College was founded in 1842, and had just completed its fifty-seventh consecutive annual course. Under an ordinance enacted in 1891, it had been created the Medical Department of the Washington University. It had continued in that relation until the close of the session of 1898-1899, when it united with the Missouri Medical College, the two schools becoming, as previously stated, the Medical Department of Washington University. This union was undertaken and successfully consummated solely in behalf of a broader and more thorough training and we firmly believe that this object has been accomplished.

Thus, the Medical Department of Washington University, as constituted at the present time, will begin its sixth annual session Monday, September 26th, 1904. The prestige of a university connection and the educational, social and athletic privileges accompanying it are of great benefit to the student. Representing, as it does, the two oldest medical colleges in the West, and having assumed their alumni and all their honored traditions, its graduates may be found in every State and its influence is widespread. A school, having at its disposal the combined resources

of two institutions of such high standing, has much to offer students of medicine. Its teaching force, of professors, lecturers, and clinicians, numbers more than one hundred.

The Medical Department owns and occupies two buildings in which are conducted the teaching work of the School, two large free dispensaries and its own hospital. It also has absolute control of the clinical privileges of two large hospitals within easy access of the school buildings. In the several city institutions it has equal privileges with others in regard to clinical instruction.

SCHOOL BUILDINGS.

LOCUST STREET BUILDING.

This building, which is situated on Locust Street between Eighteenth and Nineteenth Streets, is used for laboratories, clinical work, and didactic teaching. It was formerly occupied by the St. Louis Medical College, and was erected in 1892, after a careful comparison of the buildings of the leading Eastern medical schools had been made. It is a spacious and elegant structure and thoroughly modern in all its equipments.

In addition to the space occupied by the offices of the dean, secretary, and registrar, this building contains six lecture-rooms; two large laboratories for elementary, organic and physiological chemistry; practical anatomy rooms for dissection and for the preparation of material; an osteological laboratory; large collections of anatomical and surgical specimens; a very full working museum of pathological anatomy; a laboratory for histology; pathological and bacteriological laboratory; and a fully organized clinical department. The various laboratory departments are equipped with the latest instruments of precision and with apparatus adapted both for demonstrations and for original research.

The removal of the Dental Department has given increased space which has been used for laboratories and museums. The third floor of the building is occupied by the several anatomical laboratories, viz.,—the dissecting room, laboratory of embryology and histology, bone modeling room and museum, and by lecture rooms for medicine and materia medica. The second floor is occupied by the pathological and bacteriological laboratory, connected with which is a special private laboratory open to teachers of the School for research work in medicine; the

organic chemistry lecture room, the laboratory for inorganic chemistry and the large physiological chemistry and pharmacy laboratory. On the first floor is the physiological laboratory and research laboratory in connection with the medical and pediatric clinics, the library and reading-room and the Y. M. C. A. apartments.

JEFFERSON AVENUE BUILDING.

This beautiful and spacious building, erected in 1895 on the west side of Jefferson Avenue between Washington and Lucas Avenues, was formerly occupied by the Missouri Medical College. The faculty-room of the Medical Department is on the first floor, as are also the Dispensaries connected with the Polyclinic Hospital.

The necessity for more room in the Polyclinic Hospital, which has been felt for some time, has been met by the gradual acquirement of space in the adjoining Jefferson Avenue Building, so that at the present time this edifice is in the main a hospital furnished with general and private wards.

It is the intention of the faculty to remodel these two buildings to suit the requirements of a modern hospital.

The Clinic Club, composed of the clinical teachers of the School, holds its meetings monthly in the Jefferson Avenue Building, for the reading of original papers and for the discussion of interesting cases that appear in the different clinics.

LIBRARY.

The library, at present numbering four thousand five hundred volumes, has been classified and carefully catalogued, and is now being made use of by students, instructors and others connected with the School. Out of the proceeds of the Co-operative Association and from gifts three hundred books were added last year and seven new journals subscribed for.

Exclusive of medical journals, 29 scientific periodicals are received, distributed as follows: —

Chemistry	4
Anatomy	8
Physiology	8
Pathology and Bacteriology	7
Pharmacy	1
Pharmacology	1

For the most part the files of these journals are complete and the literature of the last ten years or more is present for the remainder.

PUBLICATION.

The Quarterly Bulletin of the Medical Department of Washington University publishes accounts of the work of the several departments, the progress and results of original research in the School, and personal news of interest concerning the alumni and others connected with the institution.

It is the official organ of the Alumni Association and for the past year has been mailed free to the graduates of the original schools and of the present one.

The second volume is completed with this issue.

CLINICAL FACILITIES.

O'FALLON DISPENSARY.

The entire first floor of the Locust Street Building is used by this large free dispensary for its patients. It is a special clinical department of the School with general medical and surgical clinics and the various special clinics fully represented. All these clinics are provided with large and well-arranged reception and consulting rooms. These, together with a spacious operating amphitheater with its waiting rooms and annexes, amply meet all requirements of space and convenience for clinical teaching.

During the past year about thirty-five hundred patients have been treated in the different clinics. These cases almost without exception are directly available for teaching purposes and full provisions have been made for the attendance of students. Those students who remain in St. Louis during the months when the School is not in session have the privilege of attending these clinics. They are also open at all times to visiting physicians and alumni of the School.

The Obstetrical Out-Clinic is one of the most valuable clinics attached to this dispensary. The resident physician in charge of the clinic is chosen at the end of each school year by the professor of obstetrics from the graduating class. Under his guidance senior students are afforded special opportunities for practical work in this important branch of medicine. During the senior year each student is required to be in actual attendance upon five or six cases.

POLYCLINIC HOSPITAL AND DISPENSARIES.

The Polyclinic Hospital, which adjoins the Jefferson Avenue Building, contains a number of wards and rooms that are main-

tained especially for the reception of patients treated in clinics of the School, an arrangement of great convenience and utility.

A private hospital in connection with a large clinic department enables the student to observe the course and treatment of disease throughout its various stages, and affords an opportunity of studying at the bedside.

The building has recently been remodeled and new wards and rooms added.

The dispensaries in connection with the hospital are unusually largely attended, and are so organized in general and special clinics that the greatest abundance of material for instruction can always be utilized. The average attendance in this dispensary is forty-five thousand patients annually.

In addition to the usual reception and consultation rooms, pharmacy, etc., there are laboratories for research and a handsome surgical amphitheater.

AFFILIATED HOSPITALS.

ST. LOUIS MULLANPHY HOSPITAL.

This is the oldest and most widely-known general hospital in the West, founded in 1828, and conducted under the charge of the Sisters of Charity. Its medical and surgical staff is made up, almost exclusively, of members of the teaching Faculty of this School.

In the hospital proper, approximately one hundred patients are admitted each month for treatment, and in the dispensaries about twenty-five hundred annually.

The last annual report shows a total of seven hundred and fifty-five operations performed in the hospital, to most of which students of this School are admitted.

During the past year the School has acquired the control of ten beds in the Mullanphy Hospital in order to afford increased facilities for bedside instruction, which was formerly limited to the Polyclinic Hospital. This acquisition now enables the members of the senior class to attend cases in small sections under the personal supervision and guidance of the professors of medicine and surgery.

Clinics are conducted by members of the Faculty for teaching General Medicine, General Surgery, Genito-Urinary Surgery, Gynecology, Laryngology and Rhinology.

The hospital is centrally located and may be reached from the Locust Street Building by direct car line in twenty minutes.

BETHESDA HOSPITAL.

Bethesda Hospital, with its foundlings' and maternity departments, is under the immediate charge of Professor E. W. Saunders. The Foundlings' Home, 3651 Vista Avenue, is within

twenty-five minutes' ride of the Medical Department and is easily accessible from all parts of the city.

This modern institution cares for over one hundred infants and children, and here may be seen all the acute and chronic diseases of that period of life.

The Maternity Department, 1210 Grattan Street, is open to senior students of this School only, affording opportunity for obstetrical diagnoses and experience.

MUNICIPAL INSTITUTIONS.

CITY HOSPITAL.

The buildings of the City Hospital occupy the block bounded by Pine, Chestnut, Seventeenth and Eighteenth Streets. They are within three minutes walk of the Medical Department.

At this institution about fifteen thousand patients are treated annually. The wards, accommodating on an average six hundred patients, offer a wide range in the selection of cases for presentation before the classes. An amphitheater, with a well-lighted arena equipped for surgical operations, is provided for teaching purposes. Clinical instruction, supplemented by the use of the microscope, is given here. The Senior Class is obliged to attend the weekly clinics in Medicine, Surgery and Diseases of the Nervous System.

INSANE ASYLUM.

The buildings of the Insane Asylum are located in commodious grounds on Arsenal Street, opposite Macklind Avenue, about thirty minutes ride from the Medical Department.

The Insane Asylum accommodates about seven hundred inmates.

REQUIREMENTS FOR ADMISSION.

Candidates for admission to the Medical Department will be received upon the following conditions: —

1. A satisfactory certificate of good moral standing.

2. *Admission by Diploma.* Any candidate who has received a degree in Arts or Science from a College or University recognized by this department, will be admitted without examination.

Diplomas of Public High Schools, Academies, with a four years' course, also of State Normal Schools having a course equivalent to a four years' High School course, are accepted as complete certificates. Diplomas must be presented by candidates to the Registrar on the date of matriculation.

Any candidate who shall present written evidence of having passed the entrance examinations of a recognized College or University, in which the requirements are equivalent to those demanded for entrance to this Department, will be admitted without examination.

3. *Admission by Examination.* Candidates for admission to the first year class of the Medical Department, who do not possess the foregoing qualifications, will be required to pass examinations in the following subjects: —

English, A and B.
Mathematics, A and B.
Latin, A and B.
History, A and B.

In addition to these subjects, the candidate must present himself for examination in five subjects, which he may choose from the following: —

English, C.
Mathematics, C.
Mathematics, D.
Mathematics, E.
Latin, C.
Latin, D.

Greek, A.
Greek, B.
Greek, C.
German, A and B.
French, A and B.
Physics.
Chemistry.
Botany and Zoology.

ENGLISH.

No candidate will be accepted in English whose work is notably defective in spelling and punctuation.

A. (1) Grammar.

(2) Composition. — A short essay, correct in spelling, punctuation, grammar and division of paragraphs, written on a subject to be announced at the time of the examination.

B. The candidate must present evidence of a general knowledge of the following works and their authors: Shakespeare's *Merchant of Venice*; Pope's *Homer's Iliad* (four books), Goldsmith's *Vicar of Wakefield*; Coleridge's *The Rime of the Ancient Mariner*; Tennyson's *The Princess*; Scott's *Ivanhoe*; Lowell's *The Vision of Sir Launfal*; Cooper's *The Last of the Mohicans*.

C. The candidate must present evidence of a special knowledge, form and structure of the following works: Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro* and *Il Penseroso*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

MATHEMATICS.

A. *Algebra*, including reduction of fractions, solution of simple equations with one, and with two or more unknowns, the Theory of Exponents, the Theory of Radicals and Proportion.

B. *Geometry, Plane*, with exercises (as in Wells, Wentworth or Phillips and Fisher).

C. *Geometry, Solid*, with numerical exercises (as above).

D. *Trigonometry, Plane*. (Wells, Wentworth, Phillips and Strong.)

- E. *Algebra, advanced*, beginning with Quadratic Equations through the college text. (Wells or Wentworth.)

LATIN.

- A. *Grammar*. (1) Inflection and derivation of words. Syntax, with writing simple Latin prose.
- B. *Cæsar*:
Latin prose translation will be based on Cæsar's Gallic Wars. Books I, II, III, IV.
- C. *Cicero*:
Translation at sight of passages taken at large from Cicero's speeches.
- D. *Virgil*. Ovid's *Metamorphosis* or from prose and verse of no greater difficulty.

GREEK.

- A. *Grammar*. Xenophon's *Anabasis*, Books I. and II., will be the basis of this examination, which will consist of the common forms and construction, and simple sentences turned into Greek or English.
- B. *Homer*. *Iliad*, Books I. and II. with questions on forms and construction.
- C. *Herodotus*. Questions on forms and construction.

HISTORY.

- A. (1) United States History. Fiske or equivalent.
(2) Civics; origin and development of our institutions.
- B. English History; or
Greek History and Roman History.

GERMAN.

- A. *Grammar*. The declension of nouns, articles, adjectives, pronouns; conjugation of strong and weak verbs. The test will consist in part by direct grammatical questions, and in part of translation of simple English into German.

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- B. *Literature.* Translation at sight of easy German Prose selected from three representative nineteenth century writers.

FRENCH.

- A. *Grammar.* The conjugation of regular verbs and of the more frequently occurring irregular verbs; forms and positions of the various pronouns and adjectives, inflections of nouns and adjectives. This will be tested by the translation into French of a short connected passage.
- B. *Literature.* Sight translation, and ability to render into good English a passage of nineteenth century prose.

PHYSICS.

The test involves a consideration of the elementary principles of Mechanics, Sound, Light, Heat, Electricity and Magnetism, as presented in the text of Carhart, Chute, Avery or Gage.

CHEMISTRY.

A knowledge of Remsen's Elements of Chemistry or its equivalent is required.

BOTANY AND ZOOLOGY.

Botany; the equivalent of the work of one year in the St. Louis High Schools.

Zoology; the equivalent of the work of one year in the St. Louis High Schools.

These examinations will be conducted by examiners appointed by the Chancellor of Washington University.

Inasmuch as the requirements preliminary to the study of medicine and to the registration of physicians vary somewhat in the different States, it is particularly enjoined upon students to conform in all respects to the special regulations governing admission to medical practice in the State in which they intend to reside.

Students from undergraduate colleges who desire credit in inorganic and organic chemistry and histology must show certificates

of the time spent in these branches and further must pass examinations in each one for which credit is sought.

Graduates in pharmacy from institutions having membership in the American Conference of Pharmaceutical Faculties will be given credit for their work in materia medica and pharmacy.

THE ADMISSION OF STUDENTS FROM OTHER ACCREDITED MEDICAL COLLEGES.

ADMISSION TO ADVANCED STANDING.

Applicants for admission to advanced standing must furnish evidence (1) that the foregoing terms of admission in regard to preliminary training have been fulfilled, (2) that courses equivalent in kind and amount to those given in this school, in the year or years preceding that to which admission is desired, have been satisfactorily completed, and (3) they must pass examinations at the beginning of the session in October* in all the subjects that have been already pursued by the class to which admission is sought. Certificates of standing elsewhere cannot be accepted in place of these examinations. The applicant must have studied as a matriculated medical student in an approved medical school for a period of time at least equal to that already spent by the class which he seeks to enter.

Graduates of other medical schools who are permitted to enter this School with advanced standing as candidates for the degree are required (a) to pay the fees charged for the years in which they are in attendance, (b) to fulfill the requirements for graduation, as stated in this Announcement, and (c) to pass satisfactorily examinations in anatomy, chemistry, physiology and pathology.

Arrangements have been made with the Faculty of the Undergraduate Department of Washington University whereby students

* See Calendar: Admission to Advanced Standing.

in that Department intending to enter the Medical School may elect in their A.B. course certain branches of the medical course. These subjects must be taken in the Medical School and the students will receive credit both in their A.B. and in their M.D. course for the grades assigned to them. By this means the time required for obtaining the two degrees may be shortened.

In this connection attention is called to the following courses which are offered to students in the Undergraduate Department of Washington University: —

Cytological Technique in the Shaw School of Botany.

Zoology 1 and 2: Biology, a combination of the elementary courses in zoology and botany designed to give students a broad one year's course in biology without specializing in either subject.

Zoology 3 and 4: Comparative anatomy and embryology of vertebrates.

Although work in this line cannot be accepted as the equivalent of any subject in the Medical School, students of the Undergraduate Department, who intend to study medicine, are advised to take it as preparatory to the medical course.

POST-GRADUATE AND SPECIAL COURSES.

Physicians, graduates of an accredited regular school of medicine, are admitted to any of the courses of instruction given in the Medical Department, subject to such restrictions as may grow out of the assignment of hours in the programmes of work laid out for the several classes; and further to the single restriction that, in the case of those desirous of taking advanced laboratory work, such proficiency in elementary work, as may be necessary for its successful prosecution, will be required. A certificate of actual attendance will be given upon request.

GENERAL STATEMENT OF THE PLAN OF INSTRUCTION.

The course of medical study extends over a period of four years of eight months each.

The curriculum is based on the amount and kind of work required of the candidate for the degree of Doctor of Medicine. The courses are graded in such a manner that all the fundamental studies and general subjects must be taken before special courses and advanced work may be pursued. Of the latter a large part is elective, in order that the student may enjoy some liberty in the pursuit of higher studies and specialties.

The work required for the degree consists of obligatory courses, no account being taken of elective studies in the School records. Throughout the four years the classes are instructed separately in the clinics and laboratories as well as in the lecture-rooms. Sectional teaching and individual instruction form part of the required work of the third and fourth years.

Instruction by the practical methods of the laboratory, post-mortem room, day clinic and bedside take up about half the time of the whole course, the other half being given over to the conferences, recitations, informal talks and lectures as a means for aiding the student in systematizing and remembering the principles of medicine.

In the first year the work is limited to chemistry and anatomy with an introductory course of lectures on general physiology in the latter part of the term. Nearly all of the time is spent in the laboratories in the study of inorganic chemistry, embryology, histology and gross and microscopical anatomy.

The work of the second year consists in a continuance of anatomical studies, the main course in physiology and organic and physiological chemistry, pathology and bacteriology. The study

of these branches is carried on almost entirely in the laboratory. In the second year the courses in materia medica and pharmacy and in therapeutics are introduced, and in the latter half the class begins the study of the normal physical signs.

General medicine and surgery naturally comprise the principal subjects of the last two years.

Medicine, surgery and obstetrics, begun in the third year, are each subdivided into graded courses. The principles of physical diagnosis are presented to the student in the medical and surgical clinics and in a well organized laboratory course of clinical chemistry and microscopy. Hygiene and sanitary science and some of the specialties are also introduced into this period of the course, such as diseases of children, neurology and ophthalmology, which are taught clinically and didactically, and lecture courses on the eruptive fevers, otology and gynecology in the last half of the year.

The studies of the fourth year are carried on mainly by sectional work in the clinics and at the bedside. Students are drilled in making diagnoses and in prescribing treatment. Cases attended during the week by certain students are discussed by the class. Each senior student is required to attend several obstetrical cases and to make obstetrical diagnoses at the Bethesda Maternity Hospital, and Obstetrical Out-Clinic. Forensic medicine and sectional work in the special clinics, are included in the work of the last year.

In order to regulate the students' work and to ascertain the results of the teaching, examinations are held regularly at stated periods (see Calendar). *Good scholarship, which includes regular attendance and satisfactory work, is insisted upon and required of all students who expect to remain in the School for the degree.*

DETAILS OF THE PLAN OF INSTRUCTION.

The Faculty reserves the right to make such changes as seem necessary, in the courses which follow.

CHEMISTRY.

WILLIAM HOMER WARREN, Professor of Chemistry.

CHEMISTRY A. — DESCRIPTIVE INORGANIC CHEMISTRY. Professor Warren and Assistants. Eight hours weekly during the first semester.

This course is designed for beginners and for those who have some acquaintance with the subject. It is identical with the regular college course in general inorganic chemistry. The work of each week is divided between lectures, laboratory hours and an oral recitation. There are three lectures illustrated by experiments. These cover the more important elements and their compounds. Four hours are spent in the laboratory. In all eighty experiments, illustrating the fundamental principles of the science, are performed. The work of the lectures and of the laboratory is reviewed in a recitation. Written examinations are held frequently.

CHEMISTRY B. — QUALITATIVE ANALYSIS. Professor Warren and Assistants. Eight hours weekly during the second semester.

This course is designed for those who have taken Chemistry A or its equivalent. A few lectures to show the technique of analysis are given but the work is mainly practical. Thorough training is afforded in the separation and detection of bases and acids. Complete analyses of about twenty-five unknown substances, including some of the more important inorganic compounds used in medicine, are made.

CHEMISTRY C. — ORGANIC AND PHYSIOLOGICAL CHEMISTRY ; TOXI-

COLOGY AND VOLUMETRIC ANALYSIS. Professor Warren and Assistants. Seven hours during the third and fourth semesters.

This course extends throughout the entire second year and is designed for those who have taken Chemistry A and B. Forty lectures are given in Organic Chemistry in order that familiarity with the structure of carbon compounds may be acquired. With the exception of these lectures the work is mainly in the laboratory. Thorough training is afforded in the use of the burette and in the analysis of unknown substances by volumetric methods. In a series of carefully chosen experiments knowledge is acquired of the fats, carbohydrates, protein substances, saliva, gastric juice, pancreatic secretion, bile, etc. Especial attention is paid to the recognition of the important physiological proximate principles in unknown mixtures. During the fourth semester laboratory training is given in the principles of toxicological analysis and unknown mixtures are analyzed for the more common poisons.

CHEMISTRY D. — ADVANCED ANALYSIS. Professor Warren. Elective during the seventh and eighth semester. Hours optional.

This course is designed for those who have taken the courses above and the course in Clinical Chemistry or their equivalents. It is limited to those who have done exceptionally good work in chemistry. In a general way it will embrace the analysis of water, milk, food products, beverages, etc. Quantitative determinations of essential ingredients and of adulterants will be made. The work will not be confined to any special field but individual wishes will be consulted in the choice of subjects.

ANATOMY.

PAUL YOER TUPPER, Professor of Applied Anatomy.

ROBERT JAMES TERRY, Professor of Anatomy.

VILRAY PAPIN BLAIR, Senior Demonstrator of Anatomy.

WILLIAM THOMAS COUGHLIN, Instructor in Anatomy.

Anatomy is taught mainly in the laboratories and extends throughout the first four semesters; a short period is spent in the

study of a vertebrate type, then follows a dissection of the muscles and joints and the study of the bones, occupying the time up to January 14th. The rest of the first year is given to work on the limbs, body walls and vegetative organs. These courses in gross anatomy are accompanied by work in histology and microscopic anatomy, and as far as possible the development of organs is taken up at the same time.

The structure of the nervous system and organs of sense is taught in the 3d semester; this is in the main a laboratory course — dissection and study of the minute anatomy. Finally the anatomical work is concluded by a course of lectures and demonstrations on the application of the subject to medicine.

As far as possible the function of parts is kept before the student and the arrangement permits of the study of a given part macroscopically and microscopically at the same time.

In the dissecting room all members of the class study the same region at the same time, guided by a programme of daily work.

Examinations are held at regular intervals both in practical anatomy and on the lectures.

Opportunities are offered for research work, the department being now in possession of a good collection of journals and the standard reference works. A teaching museum and study room will be open all day.

Students may obtain bones from the collection for modeling or home study.

The courses in anatomy are arranged as follows: —

A. Introductory lectures on the vertebrate type accompanied by dissection of the dog-fish; lectures on the locomotory apparatus with demonstrations of selected joints and muscle groups.

One hour a week in the 1st semester. Prof. Terry.

B. Practical Anatomy: dissection of the muscles, joints and peripheral nerves. 6 hours a week from October 16th to January 14th. Dr. Blair, Dr. Coughlin and instructors.

C. Osteology: study of the skeleton accompanies Course B, the

members of the class spending 6 to 8 hours a week in modeling the bones in clay. Dr. Blair.

D. Histology: cell, epithelial, connective and nerve tissues; the minute anatomy of bones, muscle and joint structures. 2 hours a week in the first semester. Prof. Terry.

E. Vertebrate Embryology: study of the ovum, maturation, cleavage, gastrulation, germ layers, development of bone, joints, spinal cord and nerves. 3 hours a week in first semester. Prof. Terry.

F. Practical Anatomy: dissection of the limbs, chest and abdomen. This is carried out according to a schedule, a definite amount of work being given for each day and the students all working upon the same region at one time. Examination at the end of the week.

Twelve hours a week from January 16th to May 12th. Dr. Blair, Dr. Coughlin and assistants.

G. Organology: this course accompanying Anatomy F, deals with the structure and development of the vegetative organs. Fresh material from the slaughter house, corrosions and wax reconstructions are employed in teaching the subject. Six hours in the second semester. Prof. Terry.

H. Nervous System and Sense Organs: the dissection of the head and neck and the study of the development, macroscopic and fine structure of the brain, cord and sense organs are carried on during the third semester. Six hours a week. Prof. Terry and assistants.

I. Applied Anatomy: Three lectures a week in the fourth semester, dealing with the application of anatomy in the practice of medicine. Prof. Tupper.

PHYSIOLOGY.

SIDNEY PAYNE BUDGETT, Professor of Physiology.

A. Physiology of the cell. One lecture a week; second semester.

B. Physiology of the Blood, of Muscle, Nerve, Spinal Cord and Peripheral Nerves, Autonomic Nervous System, Circulation, Respiration, Digestion, Metabolism, Excretion, Animal Heat, Central Nervous System and Special Senses. Three lectures, conferences or demonstrations, and three hours laboratory work each week; third and fourth semesters.

The class is divided into five sections, each section being required to spend one afternoon a week in the laboratory. The apparatus used is that designed by Professor W. T. Porter, of Harvard.

PATHOLOGY AND BACTERIOLOGY.

ERNST FRIEDRICH TIEDEMANN, Professor of Pathology and Bacteriology.

R. WALTER MILLS, M.D., Instructor in Pathology and Bacteriology.

A, B. Lectures on General Pathology and Pathological Histology with Demonstrations, 3 hours during the second year. Prof. Tiedemann.

C, D. Laboratory Work in Pathological Histology, 4 hours during second year. Prof. Tiedemann.

E. Demonstrations of Gross Pathological Anatomy and Exercises in Post-Mortem Examinations, 2 hours during second year. Obligatory for one semester, including one post-mortem examination with written report, or, in lieu thereof, reports on three post-mortems witnessed. Prof. Tiedemann.

F. Lectures on Bacteriology, 1 hour in 4th semester. Prof. Tiedemann.

G. Laboratory course in Bacteriology, 4 hours in 4th semester. Prof. Tiedemann and Dr. Mills.

H. Additional work may be taken in 6th and 8th semester as elective courses. Prof. Tiedemann.

MATERIA MEDICA AND PHARMACY.

HENRY MILTON WHELPLEY, Professor of Materia Medica and Pharmacy.

A. **Materia Medica:** Lectures and demonstrations, 2 hours in third semester. Professor Whelpley.

By means of statistics a list has been secured which contains the medicines most extensively prescribed at the present time including all of those mentioned by practitioners who instruct the students during the junior and senior years. The work in both materia medica and pharmacy is confined to this list. Attention is given to the medicine in proportion to the frequency with which it is used.

B. **Practical Work in Pharmacy and Prescription Writing,** 2 hours in the 4th semester. Professor Whelpley.

The practical work is confined to such technique as is of value to every physician. The prescription writing gives particular attention to incompatibilities and vehicles for the administration of chemicals and disagreeable medicines.

C. **Palatable Prescribing;** some lectures and demonstrations in the 8th semester. Elective. Professor Whelpley.

These lectures are based on prescription problems confronting the senior students in their clinical work.

THERAPEUTICS.

GEORGE MARVINE TUTTLE, Professor of Therapeutics.

The course in Therapeutics consists in didactic lectures twice weekly throughout the second year, on the Physiological Action, and Therapeutic Applications of the various drugs and other remedies used in the treatment of disease. These are supplemented by monthly quizzes which are devoted largely to practical work in prescription writing, and to bringing out the main points of the subjects lectured on during the preceding month.

MEDICINE.

GUSTAV BAUMGARTEN, Professor of the Practice of Medicine.

PROFESSORS OF CLINICAL MEDICINE:

WASHINGTON E. FISCHER, JUSTIN STEER,
WILLIAM C. GLASGOW.

CLINICAL PROFESSOR:

ELSWORTH SMITH, JR.

CLINICAL LECTURERS:

LOUIS H. BEHRENS, M.D. ALBERT E. TAUSSIG, M.D.

INSTRUCTORS:

JESSE S. MYER, M.D. HENRY S. BROOKES, M.D.
WILLIAM H. RUSH, M.D. WALTER BAUMGARTEN, M.D.

The course of medicine comprises a graded plan of study extending throughout three years. General didactic lectures upon the practice of medicine are supplemented by bedside and dispensary instruction and recitations.

Medical Diagnosis is taught (1) by a year's laboratory work in Clinical Chemistry and Microscopy; and (2) by two practical clinical courses each of 2 hours a week for one semester, in normal Auscultation and Percussion, and in Physical Diagnosis.

The work in clinical chemistry and microscopy has been divided into four portions, namely: (1) The blood, (2) stomach contents and faeces, (3) qualitative analysis and microscopic examination of the urine, (4) quantitative urinary work and examination of transudates and exudates.

Each of the four instructors in this course has charge of one of these subdivisions of the work and instructs in his branch in turn each of the four sections into which the junior class is divided. In this way the members of the class spend from seven to eight weeks in each of the four subdivisions of the course.

Internal medicine ("The Practice of Medicine") — exclusive of the Diseases of the Nervous System — is taught (1) by clinics

(see below); and (2) by two lectures and one recitation a week during two years. The lectures are not intended to repeat the contents of any text-book, but are designed to complement the latter and assure the comprehension of its teachings, — by stress upon the pathogenesis of the disease, the origin and meaning of its symptoms and their sequence in the morbid process, the reciprocal influence of the disturbed functions of various organs on each other; and upon the rationale of methods of treatment and the indications for the use of remedial agents.

They are illustrated by pathological specimens, by colored plates and diagrams.

The study of Clinical Medicine begins in the second half of the second year with the above mentioned courses in normal auscultation and percussion, especial attention being given to topographical percussion, — which are preparatory to the courses in physical diagnosis of the third year.

During the third and fourth years the students spend from 4 to 7 hours a week in the dispensaries and hospitals connected with the School in case-taking, in learning diagnostic methods and in the bedside study of disease and treatment.

The work of the student is controlled by written reports and conferences and by examinations from time to time.

The course includes the following subdivisions: —

A. Exercises in Normal Auscultation and Percussion, 2 hours in the 4th semester. Clin. Prof. Smith.

B, C. Clinical Chemistry and Microscopical Diagnosis; Laboratory Work, 4 hours during the third year. Dr. Taussig, Dr. Myer, Dr. Rush and Dr. Walter Baumgarten.

D. Exercises in Physical Diagnosis, 2 hours in the 5th semester. Clin. Prof. Smith.

E, F, G, H. Practice of Medicine: Lectures and Demonstrations 2 hours, and Recitations 1 hour, during the third and fourth year. Prof. Baumgarten.

I. Diseases of the Chest and Laryngology: 1 hour in the 7th semester. Prof. W. C. Glasgow.

Clinical Medicine. General Medical Clinics will be held at the school buildings and at the hospitals connected with the School.

(1) 2 hours in the 5th semester. Prof. Steer. (2) O'Fallon Dispensary, 1 hour in the 5th semester. Clin. Prof. Smith. (3) Polyclinic Hospital, 1 hour in the 6th semester. Prof. Fischel. (4) Polyclinic Hospital, 2 hours in the 6th semester. Dr. Behrens. (I) City Hospital, 1 hour during the fourth year. Prof. Fischel. (II) 2 hours in the 8th semester. Prof. Steer. (III) O'Fallon Dispensary, 1 hour in the 8th semester. Clin. Prof. Smith. (IV) Polyclinic Hospital, individual instruction in the clinic and medical conference, during the fourth year. Prof. Fischel.

SURGERY.

ELISHA HALL GREGORY, Professor of the Principles of Surgery.

HERMAN TUHOLSKE, Professor Practice of Surgery and
Clinical Surgery.

THEODORE F. PREWITT, Professor of the Principles of Surgery.

PAUL YOER TUPPER, Professor of Operative Surgery.

NORMAN B. CARSON, Professor of Clinical Surgery.

HARVEY GILMER MUDD, Professor of Fractures and Dislocations and Clinical Surgery.

CLINICAL LECTURERS:

CHARLES HENRY DIXON, M.D.

HENRY C. HARTMAN, M.D.

INSTRUCTORS:

HENRY ARTHUR GEITZ, M.D.

WILLARD BARTLETT, M.D.

A. Instruction in Minor Surgery and Bandaging, 2 hours in 5th semester. Dr. Geitz.

B. Demonstrations in Surgical Pathology, 2 hours in 6th semester. Dr. Bartlett.

The object of this course, which consists of two stereopticon demonstrations per week, is to bridge over for the student, the gap which exists between pathological anatomy and clinical

surgery. It embraces a study of the gross as well as microscopic features of tissue regeneration and repair, the forms of inflammation which are of especial surgical interest, and of tumors. Etiology and leading clinical characteristics are touched upon where it is possible.

C. Lectures and Demonstrations on Fractures and Dislocations. 2 hours in the 6th semester. Prof. Mudd.

D. Lectures on the Practice of Surgery, 3 hours in the 7th semester. Prof. Tuholske.

E. Lectures on Operative Surgery, with exercises on the cadaver, 2 hours in 8th semester. Prof. Tupper.

Members of the senior class are required to perform operations on the cadaver under the supervision of the professor in charge.

F. Lectures on the Surgery of the Brain and Spinal Cord, 1 hour in the 8th semester. Prof. Carson. The subject is illustrated by an extensive collection of lantern pictures.

G. Lectures on special topics. Elective. Prof. Gregory.

CLINICS.

(1) Polyclinic Hospital, one afternoon in the 5th semester. Opportunity is given students for minor surgical work and assisting in the major operations. Prof. Tuholske. (2) Mulvanphy Hospital, 2 hours in 5th semester and in 6th semester. Profs. Gregory and Carson. The class is divided into sections to which cases are assigned in the wards of the hospital, so that the students receive bed-side instruction. (4) Surgical Exercises, sections of the class, throughout the fifth semester. Dr. Dixon. (5) Practical work in Surgical Dressing, in sections, during third year. Dr. Schlueter. (II) O'Fallon Dispensary, 2 hours in 7th and 1 hour in 8th semester. Prof. Carson. (III) Polyclinic Hospital, one afternoon during the fourth year. Prof. Tuholske. (IV) City Hospital, 1 hour during fourth year. Profs. Tuholske, Carson and Mudd.

OBSTETRICS.

HENRY SCHWARZ, Professor of Obstetrics.

EDWARD WATTS SAUNDERS, Professor of Clinical Midwifery.

A, B. Lectures on Obstetrics with Demonstrations, 2 hours in the third year. Prof. Schwarz.

C, D. Operative Obstetrics and exercises on the manikin, 1 hour in the fourth year. Prof. Schwarz.

(I) Obstetrical and Gynecological Clinic at the O'Fallon Dispensary, 3 hours in the fourth year, for sections of ten. Prof. Schwarz.

(II) Obstetrical Clinic at the Bethesda Hospital, by appointment, during the fourth year. Prof. Saunders.

(III) Obstetrical Out-Clinic, by appointment during the fourth year. Prof. Schwarz.

Instruction in Obstetrics will be given during third and fourth years by —

1. Lectures. 2. Attendance on cases of confinement. 3. Manikin practice and section work. 4. Obstetric histology, pathology and bacteriology.

Illustrative lectures comprise a systematic course, running through the third year upon the Histology, Embryology, Physiology and Pathology of the maternal generative organs and foetus.

These lectures are theoretical to a limited extent only, being demonstrative and illustrative in character. To this end are utilized abundant collections of pelves, entire, normal and deformed, mesial sections of the same, and carefully selected plaster, composition and metal models, and instruments.

Manikin practice is given to sections of the class during the fourth year and consists of work by individual students upon the manikins including: the mechanical phenomena of labor; modes of delivery; abnormal presentations and positions, with methods of delivery of each; version, application of the forceps, and other manipulations.

Attendance upon cases of confinement. Each candidate for

the degree is required to present satisfactory evidence to the effect that he has attended a definite number of cases of confinement. Students will attend confinement cases under the supervision of the physician in charge of the out-clinic.

SPECIAL DEPARTMENTS OF MEDICINE AND SURGERY.

DISEASES OF CHILDREN.

ROBERT LUEDEKING, Prof. Diseases of Children.

EDWARD WATTS SAUNDERS, Prof. Diseases of Children.

JOHN ZAHORSKY, M.D., Clinical Lecturer on Diseases of Children.

A, B. Lectures and Demonstrations on Diseases of Children, 2 hours during the third year. Prof. Luedeking.

C. Lectures on Diseases of Infants, 1 hour in the 7th semester. Prof. Saunders.

Clinics for Diseases of Children are held at: (1) O'Fallon Dispensary, 1 hour in the 5th semester. Prof. Luedeking. (2) Bethesda Hospital, 1 hour in the 6th semester. Prof. Saunders. (I) Bethesda Hospital, 1 hour in the 7th semester. Prof. Saunders. (II) O'Fallon Dispensary, 1 hour in the 8th semester. Prof. Luedeking. (3) Polyclinic Hospital, 1 hour during the third year and (III) Polyclinic Hospital, 1 hour during the fourth year. Elective. Dr. Zahorsky.

DISEASES OF THE NERVOUS SYSTEM.

FRANCIS RHODES FRY, Professor of Diseases of the Nervous System.

*EDWARD C. RUNGE, M.D., Lecturer on Mental Diseases.

GIVEN CAMPBELL, JR., M.D., Clinical Lecturer on Diseases of the Nervous System.

A. Lectures on Diseases of the Nervous System, 2 hours in the 6th semester. Prof. Fry.

* Deceased.

Clinics for Diseases of the Nervous System will be conducted as follows: (1) Polyclinic Hospital, 1 hour in the 5th semester. Dr. Campbell. (2) O'Fallon Dispensary, 1 hour in the 6th semester. Prof. Fry. (I) O'Fallon Dispensary, 1 hour during the fourth year. Prof. Fry. (II) City Hospital, 1 hour during the fourth year. Dr. Campbell.

(III) Insane Asylum: Clinic for Mental Diseases, 2 hours (one forenoon) in the 8th semester. Prof. Fry. (IV) Courses (1) and (2) are elective in the senior year.

Professor Fry will give 34 didactic lectures to the third year students, on the etiology, symptomatology and diagnosis of diseases of the nervous system, also the various modes of treatment. This course gives a general outline of the work for the clinical courses which follow.

Clinical demonstrations are given by Dr. Campbell at the Polyclinic and City Hospital, and by Professor Fry at the O'Fallon Dispensary.

Professor Fry will conduct a clinic for mental diseases once a week during the senior year from January to May 19 at the Insane Asylum.

ORTHOPEDIC SURGERY.

AARON J. STEELE, Professor of Orthopedic Surgery.

PHILIP HOFFMAN, M.D., Clinical Lecturer on Orthopedic Surgery.

A. Lectures on Orthopedic Surgery, 1 hour in the 6th semester. Prof. Steele.

Clinical instruction in this subject is offered: (I) At the Polyclinic Hospital, 1 hour in the 7th semester. Prof. Steele. (II) At the O'Fallon Dispensary, 1 hour in the fourth year. Dr. Hoffman. Course (II) is elective.

ORTHOPEDIC SURGERY will be taught didactically and by recitation to the third year class, and clinically to the senior class. Congenital and acquired deformities, tuberculous and chronic deforming joint diseases, and loss of muscular function from the neuroses will all be fully considered and made plain by cases from practice.

The uses of plaster of Paris in its manifold application will be taught, the construction of braces illustrated, and the surgical operative procedures — as of tenotomy, osteotomy, osteoclasis, tendon transplantation, etc., will be done before the class.

DERMATOLOGY.

W. A. HARDAWAY, Professor of Diseases of the Skin and Syphilis.

JOSEPH GRINDON, Professor of Clinical Dermatology and Syphilis.

A. Lectures on Diseases of the Skin and Syphilis, with clinical demonstrations, 1 hour in the 5th semester. Prof. Hardaway.

B. Lectures on the Eruptive Fevers, Vaccination and Cutaneous Syphilis, 1 hour in the 6th semester. Prof. Grindon.

Clinical instruction in Dermatology and Syphilis will be given at: (1) the Polyclinic Hospital, 1 hour in the 8th semester, by Prof. Hardaway; and O'Fallon Dispensary, 1 hour in the 7th semester, by Prof. Grindon.

The instruction given in dermatology and syphilography is partly didactic and partly clinical. It is fully recognized that any familiar knowledge of these branches can be obtained only in the actual work of the dispensary or hospital; nevertheless, a considerable part of what may be termed the elements of these subjects, that is to say, the general consideration of symptoms, causes, therapeutics, etc., should be imparted to the student as a preliminary to the clinic. Such subjects are treated didactically in the third year of the student's course. In addition, certain general diseases, *e. g.*, leprosy, the exanthemata, syphilis, are sufficiently discussed, and especially in relation to their diagnosis and their medico-social bearings.

The important subject of Vaccination, its history, clinical phenomena, and mode of application, is exhaustively treated.

In the fourth year students are quite thoroughly drilled in practical clinical work. In addition to instruction by lectures, the classes are divided into small sections, and then again so subdivided that to each three or four men is assigned a patient for

study. At the next conference a written report is made of each case and fully discussed before the class. An opportunity is also offered for a certain amount of pathological work in dermatology to such students as may desire it.

GYNECOLOGY.

FRANK A. GLASGOW, Professor of Clinical Gynecology.

HENRY S. CROSSEN, M.D., Clinical Professor of Gynecology.

DR. WILLIS HALL, Clinical Lecturer on Venereal Diseases of Women.

The instruction in Gynecology includes: —

A comprehensive Lecture Course, dealing in a systematic way with the Diseases of Women.

Clinic Courses, in which the senior students are required, under the eye of the instructor, to make careful and systematic examinations, to make diagnoses and sustain them under criticism, to carry out the minor details of treatment and to witness the various gynecological operations.

A Phantom Course and Quiz. This is an extra drill upon the essential points in gynecologic examination, diagnosis and treatment. It is open to the seniors. An important part of it is the examinations and minor operations on the Phantom (a phantom pelvis containing natural organs, of which there are many sets both normal and abnormal, removed post-mortem for this purpose and properly preserved).

Elective work for senior students.

This work is included in the following courses: —

A. Lectures and Demonstrations, 2 hours in the 6th semester.
Prof. F. A. Glasgow.

B. Lectures and Demonstrations, 2 hours in the 7th semester.
Clin. Prof. Crossen.

Clinics: (I) Polyclinic Hospital, 3 hours during fourth year for sections of the class. Clin. Prof. Crossen; and Mullanphy Hos-

pital, 2 hours during the fourth year. Prof. F. A. Glasgow.
(II) O'Fallon Dispensary, Clinic for Venereal Diseases of Women, 1 hour in fourth year. Elective. Dr. Willis Hall.

GENITO-URINARY SURGERY.

* JOHN P. BRYSON, Professor of Genito-Urinary Surgery.

EDWIN C. BURNETT, Clinical Professor of Genito-Urinary Diseases.

H. MCC. JOHNSON, Clinical Professor of Genito-Urinary Surgery.

In the department of Genito-Urinary Surgery the students have the advantage of a large out-clinic at the O'Fallon Dispensary where daily clinics are held. At the St. Louis Mullanphy Hospital the privilege is presented of doing individual work in kidney, ureteral and bladder technique, in the wards and operating room.

A. Lectures on Genito-Urinary Surgery, 2 hours in the 7th semester. Clin. Prof. Johnson.

Clinics. (I.) Genito-Urinary Surgery, O'Fallon Dispensary, one hour in the fourth year. Clin. Prof. Johnson.

(II.) Genito-Urinary Diseases. O'Fallon Dispensary, two hours in the 7th and one in the 8th semester. Clin. Prof. Burnett.

OPHTHALMOLOGY.

JOHN GREEN, Special Professor of Ophthalmology.

HENRY LINCOLN WOLFNER, Clinical Professor of Diseases of the Eye.

ARTHUR EUGENE EWING, Clinical Professor of Diseases of the Eye.

JOSEPH W. CHARLES, Instructor in Pathological Histology of the Eye.

WILLIAM A. SHOEMAKER, Instructor in Ophthalmoscopy.

A, B. Lectures and Demonstrations, 1 hour in the 6th and 7th semesters. Prof. Green.

* Deceased.

Clinics for Diseases of the Eye: —

- (1) O'Fallon Dispensary, 1 hour in the 6th semester. Prof. Green, Clin. Prof. Ewing, Dr. Charles and Dr. Shoemaker.
- (2) Polyclinic Hospital, 1 hour in the 6th semester. Elective. Clin. Prof. Wolfner.

(I) O'Fallon Dispensary, 1 hour in the fourth year, including Ophthalmoscopy and Pathological Histology of the Eye. Prof. Green, Clin. Prof. Ewing, Dr. Charles and Dr. Shoemaker. (II) Polyclinic Hospital, 1 hour in the fourth year. Clin. Prof. Wolfner.

OTOLOGY.

HORATIO N. SPENCER, Professor of Otology.

JOHN BLASDEL SHAPLEIGH, Professor of Otology.

DAVID C. GAMBLE, Clinical Professor of Diseases of the Ear.

SELDEN SPENCER, Instructor in Otology.

A. Lectures on Diseases of the Ear, with Clinical Demonstrations, 1 hour in the 6th semester. Prof. Spencer.

Weekly lectures for one hour in the 6th semester. These lectures present the surgical anatomy of the ear and nose, the physiology of these organs, the methods of examination, the more important diseases and the therapy and surgical treatment of nasal and aural affections.

Clinical courses in this branch are conducted as follows: —

- (I) O'Fallon Dispensary, 1 hour for half the fourth year. Prof. Shapleigh; and at the Polyclinic Hospital, 1 hour for half the fourth year. Prof. Spencer and Prof. Gamble. (II) An Elective Course, 2 hours during the fourth year will be given at the above-mentioned clinics.

LARYNGOLOGY AND RHINOLOGY.

WILLIAM CARR GLASGOW, Professor of Clinical Medicine and Laryngology.

EDGAR MOORE SENSENEY, Professor of Diseases of the Nose, Throat and Chest.

GREENFIELD SLUDER, Clinical Lecturer on Diseases of the Nose, Throat and Chest.

Diseases of the Chest and Laryngology: Clinical Lectures, 1 hour in the 7th semester. Prof. W. C. Glasgow.

Clinical Instruction in Diseases of the Nose, Throat and Chest is given to sections of the class: —

(I) At the St. Louis Mullanphy Hospital, 2 hours in the 7th and 8th semesters, by Prof. Senseney; and Diseases of the Nose and Throat at the O'Fallon Dispensary, 2 hours in the 7th and 8th semesters, by Dr. Sluder. (II) At the Polyclinic Hospital, Laryngology, 1 hour in the 8th semester. Prof. W. C. Glasgow.

DEPARTMENT OF HYGIENE.

LLEWELLYN P. WILLIAMSON, M.D., Captain, Asst. Surgeon U. S. Army, Lecturer on Hygiene and Sanitary Science.

Lectures and demonstrations on Hygiene and Sanitary Science, 2 hours in the 6th semester.

HYGIENE AND SANITARY SCIENCE.

The course in hygiene and sanitary science is designed to bring clearly and concisely before the student those fundamental hygienic principles which enable the physician to intelligently combat disease-producing conditions in the individual patient and his surroundings, or in communities at large. The course is conducted by a series of lectures and explanatory quizzes, supplemented, wherever possible, by illustrations and the exhibition of the various apparatus used in sanitary work.

All subjects bearing on the general maintenance of good health: water, food, climate; the construction, ventilation, heating, and lighting of buildings; the character of soils; principles of clothing; effects of exercise; disposal of excreta, sewage, and refuse; the origin and transmission of the infective diseases. Disinfection and quarantine are treated in detail, their relation to disease discussed, and the necessity for the observance of sanitary laws impressed.

FORENSIC MEDICINE.

Courses of Lectures comprising the following subjects will be given during the 8th semester, 3 hours a week: —

Symptoms and Treatment of poisoning, 4 lectures; Microscopy of Blood Stains, Hair, etc., 2 lectures by Prof. Budgett; Abortions, Diagnosis of Recent Labor, Rape, etc., 4 lectures by Prof. Schwarz; Legal Aspects of Insanity, Injuries to the Nervous System, Alcoholism, Sunstroke, etc., 3 lectures by Prof. Fry; Legal Aspects of Traumatism and Surgical Injuries, 3 lectures by Prof. Tuholske; Post-mortem Examinations, 2 lectures by Prof. Tiedemann; Medical Jurisprudence, 12 to 15 lectures by Prof. Nagel.

ELECTIVE COURSES.

Opportunity for the pursuit of elective work is afforded in nearly every branch represented in the third and fourth years of the curriculum, and moreover students of the last two years are permitted to undertake advanced work in the subjects of the first four semesters.

No record will be kept of work elected and such courses shall not count toward the degree. In selecting these studies, students must so arrange that no conflict with prescribed work shall occur.

Instructors in charge of elective courses will post notices of the semesters, days and hours when the work is to be conducted.

The following list of elective and optional subjects was offered during the past session:—

Chemistry D.

Anatomy F and I.

Physiology B.

Materia Medica and Pharmacy E.

Pathology and Bacteriology.

Some courses in Clinical Medicine.

Pediatrics (3) and (III).

Diseases of the Nervous System B and (IV).

Orthopedic Surgery (II).

Gynecology (II).

Ophthalmology (2).

Otology (II).

Students contemplating elective work must notify the instructor in charge of the subject not later than two weeks before the beginning of the elective course. Information regarding an elective study can be obtained from the instructor.

SUMMARY OF THE PLAN OF INSTRUCTION.

The right is reserved to make amendments to this curriculum as experience may prove necessary.

The following table shows the distribution of obligatory courses by semesters. The italicized letter following the name of a subject refers to one of the several courses of that subject which will be found under "Details of the Plan of Instruction." In the third and fourth years, a number in parenthesis following the name of a study denotes that it is a clinical course in a certain branch of medicine, a description of which will be found in the same section of this Announcement. Arabic numerals are for clinics of the third year; Roman numerals for those of the fourth year.

A number in the column some distance to the right of the names of the subjects indicates the number of hours a week that is given to the teaching of the subject opposite which it is placed.

LECTURES.

PRACTICAL WORK.

First Year. 1st Semester:

Chemistry A.	3	Chemistry A.	5
Anatomy, A, E.	2	Anatomy B, C, D, E.	16

2nd Semester:

Chemistry B.	1	Chemistry B.	7
Anatomy G.	2	Anatomy F, G.	16
Physiology A.	1		

Second Year. 3d Semester:

Chemistry C.	3	Chemistry C.	4
		Anatomy H.	6
Physiology B.	3	Physiology B.	3
Pathology A.	3	Pathology C.	4
Materia Medica A.	2		
Therapeutics	2		

4th Semester:

Chemistry C.	3	Chemistry C.	4
		Materia Medica B.	2
Anatomy I.	3		
Physiology B.	3	Physiology B.	3
Pathology B, F.	4	Pathology D, E, G.	10
Therapeutics	2	Medicine A.	2

Third Year. 5th Semester:

Medicine D, E.	5	Medicine B, C, (1) (2)	7
Surgery A.	2	Surgery (1) (2) (4) (5)	6+
Obstetrics A.	2		
Pediatrics A.	2	Pediatrics (1)	1
		Dis. Nerv. Syst. (1)	1
Dermatology A.	1		

6th Semester:

Medicine F.	3	Medicine B, C, (3) (4)	4
Surgery B, C.	4	Surgery (2) (4) (5)	5
Obstetrics B.	2		
Pediatrics B.	2	Pediatrics (2)	1
Dis. Nerv. Syst.	3	Dis. Nerv. Syst. (2)	1
Hygiene	2		
Dermatology B.	1		
Orthopedic Surgery	1		

Third Year. 6th Semester — *Cont.*:

Gyneology A.	2		
Ophthalmology A.	1	Ophthalmology (1)	1
Otology	1		

Fourth Year. 7th Semester:

Medicine G, I.	4	Medicine (II) (IV) (V)	3+
Surgery D.	3	Surgery (II) (III) (IV)	5+
Obstetrics C.	1	Obstetrics (I) (II) (III)	5+
Pediatrics C.	1	Pediatrics (I)	1
		Dis. Nerv. Syst. (I) (II)	1½
		Dermatology (I)	½
		Orthopedic Surgery (I)	½
Genito-Urinary Surgery	2	Genito-Urinary Surg. (I) (II)	3
Gynecology B.	2	Gynecology (I)	1
		Laryng. & Rhin. (I)	1
Ophthalmology B.	1	Ophthalmology (I) (II)	½
		Otology (I)	½

8th Semester:

Medicine H.	3	Medicine (I) (II) (III) (IV)	6
Surgery E, F.	3	Surgery (II) (III) (IV)	4+
Obstetrics D.	1	Obstetrics (I) (II) (III)	3+
Forensic Medicine	3		
		Pediatrics (II)	1
		Dis. Nerv. Syst. (I) (II) (III)	3½
		Dermatology (I)	½
		Genito-Urinary Surg. (I) (II)	2
		Gynecology (I)	1
		Laryng. & Rhin. (II)	1
		Ophthalmology (I) (II)	½
		Otology (I)	½

Elective study (*i. e.*, study not counting toward the degree) is offered to Third and Fourth Year Students who may desire to extend their knowledge along certain lines, or who may wish to investigate.

The schedules which follow indicate the work offered by the School during the session of 1903-1904. An inspection of these will give a good idea of the amount of laboratory instruction and the great clinical facilities to be had, and of the large staff of instructors.

Semester I.

First Year. September 24 to January 30, 1904.

Semester I.

Hours.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
9-10	Chemistry <i>a</i> . Prof. Warren.	Anatomy <i>a</i> .	Chemistry <i>a</i> . Prof. Warren.	Anatomy <i>a</i> .	Chemistry <i>a</i> . Prof. Warren.	Anatomy <i>b</i> . Laboratory.
10-11	Anatomy <i>a</i> . Prof. Terry.	Laboratory.	Anatomy <i>a</i> . Prof. Terry.	Laboratory.	Anatomy <i>a</i> . Prof. Terry.	Laboratory.
11-1	Chemistry <i>a</i> . Laboratory.	Histology <i>a</i> . Laboratory.	Chemistry <i>a</i> . Laboratory.	Histology <i>a</i> . Laboratory.	Histology <i>a</i> . Laboratory.	Histology <i>a</i> . Laboratory.
2-4	Anatomy <i>b</i> . Laboratory.	Anatomy <i>b</i> . Laboratory.	Anatomy <i>b</i> . Laboratory.	Anatomy <i>b</i> . Laboratory.	Anatomy <i>b</i> . Laboratory.	
4-5						
5-6						

Semester II.

First Year. February 1 to May 19, 1904.

Semester II.

Hours.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
9-10	Chemistry <i>b</i> . Laboratory.	Histology <i>b</i> . Prof. Budgett.	Chemistry <i>b</i> . Laboratory.	Anatomy <i>c</i> . Prof. Terry.	Anatomy <i>c</i> . Prof. Terry.	Anatomy <i>c</i> . Prof. Terry.
10-11						
11-12	Prof. Warren.	Histology <i>b</i> . Prof. Budgett.	Prof. Warren.	Anatomy <i>d</i> . Laboratory.	Histology <i>b</i> . Prof. Budgett.	Histology. <i>b</i> . Prof. Budgett.
12-1						
					Physiology <i>a</i> . Prof. Budgett.	
2-3	Anatomy <i>d</i> . Laboratory.	Anatomy <i>d</i> . Laboratory.	Anatomy <i>d</i> . Laboratory.	Anatomy <i>d</i> . Laboratory.	Anatomy <i>d</i> . Laboratory.	
3-4						
4-5	Osteology. Laboratory.	Visceral Anatomy. Laboratory.	Osteology. Laboratory.	Visceral Anatomy. Laboratory.	Osteology. Laboratory.	
5-6						

Semester III. Second Year. September 24 to January 30, 1904. Semester III.

Hours,	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
9-10	Anatomy <i>f.</i> Prof. Tupper.	Physiology <i>b.</i> Prof. Budgett.	Anatomy <i>f.</i> Prof. Tupper.		Anatomy <i>f.</i> Prof. Tupper.	
10-11	Materia Medica <i>a.</i> Prof. Whelpley.	Chemistry <i>c.</i> Prof. Warren.	Materia Medica <i>a.</i> Prof. Whelpley.	Chemistry <i>c.</i> Prof. Warren.	Physiology <i>b.</i> Prof. Budgett.	Chemistry <i>c.</i> Prof. Warren.
11-12	Physiology <i>b.</i> Prof. Budgett.	Chemistry <i>c.</i>	Physiology <i>b.</i> Prof. Budgett.		Chemistry <i>c.</i>	
12-1	Therapeutics <i>c.</i> Prof. Tuttle.	Laboratory.	Therapeutics <i>c.</i> Prof. Tuttle.		Laboratory.	
2-3	Pathology <i>a.</i> Prof. Tiedemann.	Pathology <i>c.</i>	Pathology <i>a.</i> Prof. Tiedemann.	Pathology <i>c.</i>	Pathology <i>a.</i> Prof. Tiedemann.	
3-4	Pathology <i>c.</i>	Laboratory.	Pathology <i>c.</i>	Laboratory.		
4-5	Laboratory.		Laboratory.			
5-6						

Semester IV.

Second Year. February 1 to May 19, 1904.

Semester IV.

Hours.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
9-10	Chemistry <i>c.</i> Laboratory.	Chemistry <i>c.</i> Laboratory.	Pathology <i>g.</i> Laboratory.	Physiology. Laboratory.	Chemistry <i>c.</i> Prof. Warren.	
10-11					Pathology <i>g.</i>	
11-12	Materia Medica <i>b.</i> Laboratory.		Therapeutics <i>d.</i> Prof. Tuttle.		Laboratory.	Pathology <i>f.</i> Prof. Tiedemann.
12-1					Therapeutics <i>b.</i> Prof. Tuttle.	
2-3	Pathology <i>d.</i> Laboratory.	Pathology <i>b.</i> Prof. Tiedemann.	Pathology <i>d.</i>	Pathology <i>b.</i> Prof. Tiedemann.	Pathology <i>b.</i> Prof. Tiedemann.	Pathology <i>e.</i> Post-Mortem Work at City Hospital. Prof. Tiedemann.
3-4		Pathology <i>d.</i> Laboratory.	Laboratory.	Pathology <i>d.</i>	Materia Medica <i>b.</i> Prof. Whepley.	
4-5	Medicine <i>c.</i> Clin. Prof. Smith.	Laboratory.	Medicine <i>a.</i> Clin. Prof. Smith.	Laboratory.		
5-6						

Semester V.

Third Year. September 24 to January 30, 1904.

Semester V.

Hours.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
9-10	Surgery <i>f</i> . Dr. Geltz.		Surgery <i>f</i> . Dr. Geltz.	Medicine <i>b</i> .		Medicine <i>b</i> .
10-11	Obstetrics <i>a</i> . Prof. Schwarz.	Dis. Nerv. Syst. <i>a</i> . Prof. Fry.	Obstetrics <i>a</i> . Prof. Schwarz.	Dr. Taussig. Dr. Myer.	Dis. Nerv. Syst. <i>a</i> . Prof. Fry.	Dr. Taussig.
11-12	Medicine (1). Prof. Steer.	Surgery (2). Profs. Gregory and Carson. M .	Medicine (1). Prof. Steer.	Dr. W. Baumgarten.	Dis. Nerv. Syst. (1). Dr. Campbell. P .	Dr. Myer.
12-1	Surgery <i>c</i> . Prof. Gregory.		Pediatrics <i>a</i> . Prof. Luedeking.	Dr. Rush.	Pediatrics <i>a</i> . Prof. Luedeking.	Dr. Rush.
2-3	Surgery (4). Dr. Dixon. P .		Medicine <i>d</i> . Clin. Prof. Smith. City Hospital.	Dermatology <i>a</i> . Prof. Hardaway.	Surgery (1).	Surgery (4). Dr. Dixon. P .
3-4	Medicine <i>d</i> . Clin. Prof. Smith. O'F .				Prof. Tuholske. Polyclinic Hospital.	Pediatrics (1). Prof. Luedeking. O'F .
4-5	Medicine <i>e</i> . Prof. Baumgarten.		Medicine (2). Clin. Prof. Smith. O'F .	Medicine <i>e</i> . Prof. Baumgarten.		Medicine <i>e</i> . Prof. Baumgarten.
5-6						

M. = St. Louis Mullanphy Hospital. **O'F.** = O'Fallon Dispensary. **P.** = Polyclinic Hospital. **S.** = Sections. Surgery *c* is elective.

Semester VI.

Third Year. February 1 to May 19, 1904.

Semester VI.

Hours.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
9-10			Surgery <i>b</i> . Prof. Mudd.	Medicine <i>c</i> .	Surgery <i>b</i> . Prof. Mudd.	Medicine <i>c</i> . 9 a. m.-1 p. m. Surgery (2).
10-11	Obstetrics <i>b</i> . Prof. Schwarz.		Obstetrics <i>b</i> . Prof. Schwarz.	Dr. Taussig.		Prof. Gregory and Prof. Carson. M .
11-12	Medicine (3). Prof. Fischel.	Surgery (2). Prof. Carson. M . Section of Class.	Gynecology <i>a</i> . Prof. F. A. Glasgow.	Dr. Meyer. Dr. Baumgarten.	Gynecology <i>a</i> . Prof. F. A. Glasgow.	11 a. m.-1 p. m. Section of Class.
12-1	Pediatrics <i>b</i> . Prof. Luedeking.		Dermatology <i>b</i> . Prof. Grindon.	Dr. Rush.	Pediatrics <i>b</i> . Prof. Luedeking.	
2-3	Surgery <i>g</i> . Dr. Bartlett.	Medicine (4). Dr. Behrens. P .	Ophthalmology (4). Cln. Prof. Wolfner.	Otology. Prof. Spencer.	Medicine (4). Dr. Behrens. P .	
3-4				Orthopedic Surgery. Prof. Steele.		
4-5	Medicine <i>f</i> . Prof. Baumgarten.			Medicine <i>f</i> . Prof. Baumgarten.	Ophthalmology (3). Prof. Green and Cln. Prof. Ewing. O F .	
5-6		Pediatrics (2). Prof. Saunders. B .		Ophthalmology <i>a</i> . Prof. Green.		

M. = St. Louis Mullanphy Hospital. **P**. = Polyclinic Hospital. **O F**. = O'Fallon Dispensary. **B**. = Bethesda Hospital.

Semester VII.

Fourth Year. September 24 to January 30, 1904.

Semester VII.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
9-10		* Gynecology <i>b</i> . Cln. Prof. Crossen. O'F.				* Gynecology <i>b</i> . Cln. Prof. Crossen. O'F.
10-11		S. Gynecology (I). Prof. F.A. Glasgow. M.		* Dis. Nerv. Syst. (I). Prof. Fry. O'F.	* Obstetrics <i>c</i> . Prof. Schwarz.	S. Gynecology (I). Prof. F.A. Glasgow. M.
11-12	S. Obstetrics (I). Prof. Schwarz. O'F. Gynecology (I). Cln. Prof. Crossen. P.		S. Obstetrics (I). Prof. Schwarz. O'F. Gynecology (I). Cln. Prof. Crossen. P.	* Medicine (IV). Prof. Fischel. P.	S. Obstetrics (I). Prof. Schwarz. O'F. Gynecology (I). Cln. Prof. Crossen. P.	
12-1		S. Dis. N. Th. and Ch. (I). Prof. Senseney. M.	* Pediatrics <i>c</i> . Prof. Saunders.	S. Derm. and Syph. (I). Prof. Grindon. O'F.		S. Dis. N. Th. and Ch. (I). Prof. Senseney. M.
2-3	S. Otology (I). Prof. Shapleigh. O'F. Dis. N. Th. & Ch. (II). Prof. W. C. Glasgow. P. Dis. N. Th. and Ch. (I). Dr. Sinder. O'F.	* At Polyclinic; Surgery (III). Prof. Tuholske.	Ophthalmology (II). Cln. Prof. Wolfner. P.	S. Otology (I). Prof. Spencer and Gamble. P. Dis. N. Th. and Ch. (I). Dr. Sluder. O'F.	* Diseases of the Chest and Laryngology. Prof. W.C. Glasgow. P.	
3-4	* Surgery (II). Prof. Carson. O'F.		* At City Hospital; Medicine (I). Prof. Fischel. Surgery (IV). Prof. Carson and Mudd. Dis. Nerv. Syst. (II). Dr. Campbell.	* Orthopedic Surg. (I). Prof. Steele. P.	* Surgery (II). Prof. Carson. O'F.	
4-5	* Medicine <i>g</i> . Prof. Baumgarten.	* At Bethesda; Pediatrics (I). Prof. Saunders.		* Medicine <i>g</i> . Prof. Baumgarten.	* Ophthalmology (I). Prof. Green and Cln. Prof. Ewing. O'F.	* Medicine <i>g</i> . Prof. Baumgarten.
5-6				* Ophthalmology <i>b</i> . Prof. Green.		

* = Class.

S. = Sections.**O'F.** = O'Fallon Dispensary.**P.** = Polyclinic Hospital.**M.** = Mullanphy Hospital.

Semester VIII.

Fourth Year. February 1 to May 19, 1904.

Semester VIII.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
9-10	* Surgery <i>e</i> . Prof. Tupper.		* Insane Asylum ; Dis. Nerv. Syst. (III). Prof. Fry & Dr. Runge.	* Forensic Medicine.	* Surgery <i>e</i> . Prof. Tupper.	
10-11	* Dis. Nerv. Syst. (I). Prof. Fry. O'F.	S. Gynecology (I). Prof. F.A. Glasgow. M.	S. Obstetrics (I). Prof. Schwarz. O'F. Gynecology (I). Clin. Prof. Crossen. P.	* Surgery <i>d</i> . Prof. Carson.	* Obstetrics <i>d</i> . Prof. Schwarz.	S. Gynecology (I). Prof. F.A. Glasgow. M. * Medicine (II). Prof. Steer. M.
11-12	S. Obstetrics (I). Prof. Schwarz. O'F. Gynecology (I). Clin. Prof. Crossen. P.	* Medicine (II). Prof. Steer. M.			* Medicine (IV). Prof. Fischel. P.	
12-1	* Hygiene and Sanitary Science. Dr. Williamson.	S. N. Th. & Ch. (II). Prof. Senseney. M.	* Forensic Medicine.	* Hygiene and Sanitary Science. Dr. Williamson.	* Forensic Medicine.	S. Dis. N. Th. & Ch. (II). Prof. Senseney. M.
2-3	S. Otology (I). Prof. Shapleigh. O'F. Dis. N. Th. & Ch. (II). Prof. W. C. Glasgow. P.	S. Ophthalmology (II). Clin. Prof. Wolfner. Dis. N. Th. & Ch. (I). Dr. Sluder. O'F.		S. Dermatology (I). Prof. Hardaway. P. Otology (I). Profs. Spencer and Gambie. P.	Dis. N. Th. & Ch. (I). Dr. Sluder. O'F.	
3-4	* Surgery (II). Prof. Carson. O'F.	* At Polyclinic Hospital ;	* At City Hospital ; Medicine (I). Prof. Fischel. Surgery (IV). Prof. Tuholske. Dis. Nerv. Syst. (II). Dr. Campbell.		* Medicine (III). Clin. Prof. Smith. O'F.	* Pediatrics (II). Prof. Inedeking. O'F.
4-5	* Medicine <i>h</i> . Prof. Baumgarten.	Surgery (III). Prof. Tuholske.		* Medicine <i>h</i> . Prof. Baumgarten.	* Ophthalmology (I). Prof. Green and Clin. Prof. Ewing. O'F.	* Medicine <i>h</i> . Prof. Baumgarten.
5-6	* Surgery <i>a</i> . Prof. Tuholske.			* Surgery <i>a</i> . Prof. Tuholske.	S. Derm. & Syph. (II). Clin. Prof. Burnett. O'F.	* Genito-Ur. Surg. (I). Clin. Prof. Johnson.

* = Class. **S.** = Sections. **O'F.** = O'Fallon Dispensary. **P.** = Polyclinic Hospital. **M.** = St. Louis Mullanphy Hospital.

PROMOTION.

At the end of the First Year: —

A student, candidate for the degree, will be promoted to the Second Year Class, if having attended regularly the courses of the first year he has no more than one condition in a laboratory course and one condition in a lecture course.

A condition in a laboratory course and in one of the lecture courses specified must, however, be made up by the end of the fourth semester.*

At the end of the Second Year: —

A student will be promoted to the Third Year Class whose work throughout the First and Second Years has been generally satisfactory.

A student cannot enter the Third Year Class with a condition and he is allowed until the following fall to remove any he may have.*

At the end of the Third Year: —

A student will be promoted to the Senior Class, if he has attended regularly the lectures, clinics and other required courses of the Third Year; if he has received credit for the practical courses in Medicine and Surgery; if he has satisfactorily passed examinations in the lecture courses of Medicine, Surgery and Obstetrics; and if he has been accredited with a majority of all other branches taught in this year.

At the end of the Senior Year a student will be graduated subject to the conditions named under "Requirements for Graduation."

* Examinations for removal of conditions will be held in the fall and spring. (See Calendar.)

REQUIREMENTS FOR GRADUATION.

1. The candidate must be twenty-one years of age.
2. He must be of good moral character (which includes unexceptionable conduct while at this School).
3. He must have fulfilled the requirements for entrance.
4. He must have attended not less than four annual courses of medical instruction as a regularly matriculated medical student, the last of which must have been in this School.
5. He must, by the first of April, have notified the Dean, in writing, of his intention to present himself as a candidate for the degree.
6. He must have discharged all indebtedness to the School.
7. He must have taken all obligatory courses offered here, or their equivalent, and have done satisfactory work in all of them.

At the end of the Fourth Year every student, who has fulfilled these requirements, will be recommended for the degree of Doctor of Medicine.

PRIZES.

Two "GEORGE F. GILL Prizes" are offered to the students of the School, viz. : —

1. One prize of fifty dollars to be awarded at the end of the First Year to the member of the class who shall have made the highest grade in anatomical work assigned to the First Year class.

At the discretion of the Professor of Anatomy other students of the First Year who shall have done excellent work in Anatomy may be awarded "Honorable Mention" at Commencement. The names of those students thus chosen will be printed in the Announcement.

2. One prize of fifty dollars to be awarded to a member of the graduating class, of high general standing, who shall have done specially good work in the department of Diseases of Children.

3. A CURTMAN prize will be awarded at the end of the First Year to the member of the class who shall have made the highest grade in Chemistry.

At the discretion of the Professor of Chemistry other students of the First Year who shall have done excellent work in Chemistry may be awarded "Honorable Mention" at Commencement. The names of those students thus chosen will be printed in the Announcement.

SCHOLARSHIPS.

1. The GEORGE F. GILL SCHOLARSHIP, instituted in memory of the late Dr. George F. Gill, Clinical Professor of Diseases of Children, entitles the holder to one year's free tuition.

ASSISTANTSHIPS.

From ten to twelve positions as laboratory assistants in the courses in Chemistry, Anatomy, Histology, Pathology, Bacteriology and Pharmacy are awarded to students of high standing who have been in attendance for more than one year. The salary attached to these positions is never more than fifty dollars for each session and is dependent upon the amount of work required of the student.

CO-OPERATIVE ASSOCIATION.

By becoming members of this Association students are enabled to decrease their living expenses in many ways. Membership cards may be obtained at the School Book Store, a department

of the Association where students can obtain the text-books and other supplies needed in the course. As the profits of this store are used in the development of a library for the Medical School, students and all others in connection with this department of the University are urged to give it their patronage.

THE YOUNG MEN'S CHRISTIAN ASSOCIATION.

This organization has for its chief aim the development of the religious life of the institution and secondarily to promote the interests of the student in every other way possible. The Association is non-sectarian and invites the co-operation of men of all Christian denominations. It seeks to contribute to the social life of the student body by providing a room where men may meet and become acquainted. In its rooms the daily papers, weekly and monthly magazines, writing materials and various forms of amusement are at the disposal of those who desire them.

The Association makes a special effort to be of service to new men. Its information bureau answers questions which men strange to the School have to ask. It secures desirable boarding places for them and endeavors to obtain employment for such as desire it. In order to enable the freshmen to meet the oldest students a social, to which all students are invited, is given early in the year.

The affairs of the Association are managed by a board of officers, elected from the student body, under the supervision of the State Association. A student secretary, who receives a salary in addition to his tuition and fees, is in immediate charge at the building. Weekly religious services are held, at which men of prominence from St. Louis and other places address the students. The organization has been in existence for one year only and already more than one-fourth of the men of the institution are enrolled in its membership.

FEES AND EXPENSES.

TUITION.

All fees and charges are payable at the office of the Registrar. All checks should be made payable to the order of H. N. Spencer, Treasurer.

Each student, before he can register, will be charged a matriculation fee of five dollars, which is payable but once during the course of four years. In addition an annual tuition fee of one hundred dollars will be charged, and this is payable at the beginning of each session.

If at the end of the session a student shall have left unpaid any portion of his tuition fee, or other expenses he may have incurred, he will not be considered in good standing. In case he is a candidate for the degree, he will not be admitted to the final examinations; or, if he is a member of one of the three lower classes, his grades will be withheld and no certificate of attendance will be issued to him until he shall have discharged his indebtedness to the School.

When a student enters the School and pays the required fees, it is taken for granted that he has given the matter due consideration, and that he is prepared to pursue the course of study prescribed. The Faculty stands ready to perform its part of the work as laid down in the curriculum. For these reasons fees once paid by students cannot for any cause whatsoever be refunded nor transferred. A student, however, who has paid his tuition fee and for good reason is unable to complete the session, will be given credit for the amount, and upon his return to the School at some subsequent time, he will not be required to pay the same fee a second time.

LABORATORY FEES AND OTHER CHARGES.

At the beginning of the session special fees are charged to cover the cost of materials and apparatus used in the laboratories. No portion of these fees is refunded. Students are further required to make good any loss resulting from damage or breakage of apparatus. Students must supply their own padlocks for the lockers provided for clothing and apparatus and the School will not assume responsibility for any loss of property.

No fees will be charged for demonstrators' or hospital tickets or for graduation.

Each student in the first three years is required to pay to the Registrar of the College five dollars (\$5.00) each year to cover breakage in the laboratories. This sum, less the amount charged against it for breakage, will be returned to him at the end of each year.

Tickets must be taken out and paid for at the beginning of the session.

FIRST YEAR.

CHEMICAL LABORATORY. A laboratory fee of five dollars will be charged in General Chemistry and Qualitative Analysis. The average additional charge for breakage is about three dollars.

DISSECTING ROOM. A fee of five dollars will be charged for the use of anatomical material issued for dissection.

HISTOLOGICAL LABORATORY. A fee of five dollars will be charged for the use of a microscope and for material supplied in Histology. A student will be held responsible for damage to his microscope, or for loss of parts and will be expected to pay the cost. A student using his own microscope will be charged only three dollars.

EMBRYOLOGICAL LABORATORY. A fee of two dollars and a half will be charged to cover the cost of material.

An annual rental fee of twenty-five cents will be charged for a locker.

SECOND YEAR.

CHEMICAL LABORATORY. A laboratory fee of five dollars will be charged in Physiological Chemistry. The average additional charge for breakage is about one dollar.

ANATOMICAL LABORATORY. A fee of two dollars and a half will be charged for use of material.

PHYSIOLOGICAL LABORATORY. A fee of five dollars will be charged to cover the cost of material used.

PATHOLOGICAL LABORATORY. A fee of five dollars will be charged for the use of a microscope and for material supplied in Pathology and Bacteriology.

PHARMACEUTICAL LABORATORY. A fee of one dollar will be charged for laboratory work in Pharmacy. An additional charge will be made for breakage.

THIRD YEAR.

CHEMICAL LABORATORY. A laboratory fee of five dollars will be charged in Urinology and for the use of a microscope in Microscopical Diagnosis. An additional charge will be made for breakage.

FEES OF ALUMNI, GRADUATES OF OTHER MEDICAL SCHOOLS,
AND SPECIAL STUDENTS.

Graduates of the Saint Louis Medical College, of the Missouri Medical College and of the Medical Department of Washington University have a perpetual free admission. This privilege entitles the holder to attend all lectures and clinics. Should he wish to take any course in which laboratory work is given, he will be charged the specified fee.

Graduates of other medical schools will be charged the matriculation fee of five dollars, and a tuition fee of twenty-five dollars for attendance during a session or for any part of a session. For all courses in which laboratory work is given the specified fees will be charged in addition.

Students who may wish to take special courses of study not covered by any of the above clauses, are requested to make written application to the Dean, stating plainly the nature of the work they wish to do and the length of time they expect to be in attendance.

SUMMARY OF EXPENSES FOR THE FOUR YEARS' COURSE.

The actual fees charged for each year's attendance at the school are as follows: —

	First Year.	Second Year.	Third Year.	Fourth Year.
Matriculation.....	\$ 5 00	\$.....	\$.....	\$.....
Tuition.....	100 00	100 00	100 00	100 00
Chemistry.....	5 00	5 00	5 00	.....
Breakage (estimated).....	3 00	1 50	1 00	.....
Anatomy.....	5 00	2 50	.....	.....
Histology.....	5 00	.....	.....	.....
Embryology.....	2 50	.....	.....	.....
Physiology.....	.....	5 00	.....	.....
Pharmacy.....	.....	1 00	.....	.....
Pathology.....	.....	5 00	.....	.....
Locker.....	25	25	25	25
Total.....	<u>\$125 75</u>	<u>\$120 25</u>	<u>\$106 25</u>	<u>\$100 25</u>

Thus for residence in St. Louis during four annual sessions of thirty-five weeks each and for attendance at the Medical Depart-

ment, exclusive of the cost of instruments, clothing, amusements and incidentals, a conservative estimate would be:—

	First Year.	Second Year.	Third Year.	Fourth Year.
School.....	\$125 75	\$120 25	\$106 25	\$100 25
Books.....	25 00	25 00	25 00	25 00
Room-rent.....	52 50	52 50	52 50	52 50
Board.....	122 50	122 50	122 50	122 50
Total.....	<u>\$325 75</u>	<u>\$320 25</u>	<u>\$306 25</u>	<u>\$300 25</u>

STUDENTS.

FIRST YEAR CLASS.

NAMES.	RESIDENCE.
Ashley, George F.	Paris, Idaho.
Bartels, Leo George	Cape Girardeau, Mo.
Barter, Angus J., A.B.	Lebanon, Ills.
Bowles, John Anderson	Louis Prairie, Mo.
Braden, Alfred Ernest	Walla Walla, Wash.
Braham, Julian Alfred	Farmington, Mo.
Brandt, Benjamin	Cappelan, Mo.
Clark, Hiram Jackson	Richmond, Mo.
Cordonnier, Louis Joseph	East St. Louis, Ills.
Courtright, John Leslie	Yakima City, Wash.
DeLong, William Allen	Batchtown, Ills.
Dixon, Charles Hall	Wichita, Kans.
DuBois, Henry Harris Slaton	Greensboro, Ala.
Ewerhardt, Frank Henry	Sheboygan, Wis.
Farrar, Charles B.	Marquand, Mo.
Freels, Arthur McDonald	East St. Louis, Ills.
Fronske, Martin George	St. Louis, Mo.
Gay, Jean Paul	So. McAlester, Ind. Ter.
Gipson, Emmet Herbert	Lagonda, Mo.
Gray, Robert Quincy	California, Mo.
Hertel, Garfield Eugene	Freeburg, Ills.
Hill, Lawrence Henry	Paragould, Ark.
Hudgings, Clay Thomas	Caruthersville, Mo.
Jackson, Frank F.	Stratberry, Ont., Canada.
Jameson, Charles Howard	St. Louis, Mo.
Jones, Walter Matthews	Brookfield, Mo.
Kerlagon, Clarence Cyrus	Bellevue, Mo.
Kirwin, William	Graniteville, Mo.
Kluegel, William	St. Louis, Mo.
Lemmon, George Bruce	Warrensburg, Mo.

NAMES.	RESIDENCE.
Lewis, Harry Overton	Iuka, Ill.
Liston, Joseph Burt	Carlinville, Illinois.
Luckey, Frank Seymour	Festus, Mo.
Ludwigs, Gustav Anton John	East St. Louis, Ill.
Lund, Herlup Gyde	Soro, Denmark.
Martin, Gervis Junior	Arrow Rock, Mo.
McCubbin, James Burlington	Ladonia, Mo.
Merwin, Edgar	Edwardsville, Ill.
Middlebrooks, George Fred	Hope, Ark.
Newman, Percy	St. Louis.
O'Reilly, William	Alsey, Ills.
Patterson, Jacob Bruce, A.B.	Orangeville, Penn.
Peacock, Burton Earl	Moline, Ills.
Poston, Harry Prewett	Bonne Terre, Mo.
Ragland, Dallas Case	Springfield, Ills.
Reinhardt, Gustav	St. Louis, Mo.
Reinhardt, Oscar F.	New Baden, Ills.
Rich, William Lafayette	Paris, Idaho.
Robinson, Leonard Hughes	Warrensburg, Mo.
Royston, Grandison Delaney	Washington, Ark.
Sale, Llewellyn, A.B.	St. Louis, Mo.
Schweninger, Edward Alexander	St. Louis, Mo.
Shadid, Michael	Beyrout, Syria.
Shaw, Albert Rodney	Louisiana, Mo.
Shupe, James Riley	Montpelier, Idaho.
Simpson, Joseph Hilary	St. Louis, Mo.
Sparling, Arthur Marion	Sailor Springs, Ills.
Spivy, Raymond Mills	Henderson, Texas.
Story, James Goree	Harrison, Ark.
Tillmanns, Charles Samuel Jonathan	St. Charles, Mo.
Vinyard, Paul	Jackson, Mo.
Total, 61.	

SECOND YEAR CLASS.

Bell, Robert Hamilton	Carlinville, Ills.
Bodine, Rufus Howard	Paris, Mo.
Boren, Albert James	Liberty, Ills.
Bowman, John Clark	Sturgeon, Mo.
Clark, Edward Spencer, A.B.	Warrensburg, Mo.

NAMES.	RESIDENCE.
Cockrell, Eugene Peyton, Ph.B.	Lamar, Mo.
Colvert, George Washington	Vandalia, Mo.
Crawford, Thomas Owen	Bay, Ark.
Dames, Alphonse Ferdinand	St. Paul, Mo.
DuMars, Eliot Callender	Peoria, Ills.
Duncan, Fred Wallace	Marshall, Mo.
Ellery, William Linton	La Grange, Mo.
Engelman, Oscar R.	Cape Girardeau, Mo.
Englert, Victor I., Ph.G.	St. Louis, Mo.
Esselbruegge, Fred C.	St. Louis, Mo.
Evers, Emile T.	St. Louis, Mo.
Gaebe, Otto Christian	Addieville, Ills.
Gallagher, John Francis	O'Neill, Neb.
Gardner, Charles Campbell	Lehigh, I. T.
Glaser, Martin Joseph, Ph.G.	St. Genevieve, Mo.
Gray, John Worth	Hickory Valley, Ark.
Greenwood, Merryll	Akron, Ohio.
Gundlach, Arthur	St. Louis, Mo.
Harrell, Henry Jackson	Springfield, Mo.
Hayes, Karl Lovell	Pleasant Plains, Ills.
Henske, Andrew C., A.B.	St. Louis, Mo.
Hoebel, Hugo Harry, Ph.G.	St. Louis, Mo.
Hyndman, Elihu Charles	Sparta, Ills.
Jones, Edward Baxter	Jacksonville, Tex.
Khoury, Mitri Fiad	Beyrout, Syria.
Kirby, Henry Hodgen	Harrison, Ark.
Knott, Alburt William	Westville, Mo.
Lawler, Thomas Augustus	Rushville, Ills.
Leslie, Walter Logan	Russellville, Mo.
Lipsitz, Samuel	Dallas, Tex.
Martin, Samuel P.	East Prairie, Mo.
McPheeters, Samuel Brown, A.B.	St. Louis, Mo.
Mercer, Ray	Liberty, Ills.
Nichols, Arthur A.	Fargo, N. D.
O'Connor, Christopher Sebastian, A.M.	St. Joseph, Mo.
Parker, Harry Field	Warrensburg, Mo.
Peters, Augustus W., Ph.G.	Brenham, Tex.
Pitzman, Marsh, A.B.	St. Louis, Mo.
Pope, Boyd Henderson	Winfield, Kans.
Ratcliff, Ernest, Jr.	St. Louis, Mo.

NAMES.	RESIDENCE.
Roe, Thomas Hamilton	Pinckneyville, Ills.
Ross, John Frederick	Littleton, Ills.
Schulenburg, August Carl	{ Lichtenburg, Transvaal, S. A.
Shelly, Hargus Gerald	Mulvane, Kans.
Skaggs, Charles Simer	Harrisburg, Ills.
Smith, William Hope	Mineola, Tex.
Sullivan, Francis Joseph, A.B.	St. Louis, Mo.
Sutter, John Ritter	Edwardsville, Ills.
Tribble, George Barnett	Piasa, Ills.
Urban, Robert Oliver	Louisiana, Mo.
Wahl, Eugene, Jr.	Edwardsville, Ills.
Weber, Peter John, Ph.G.	St. Louis, Mo.
Weir, Marshall Webster	Belleville, Ills.
Weiss, William, Jr.	St. Louis, Mo.
Zelle, Frederick Francis, A.B.	St. Louis, Mo.
Total, 60.	

THIRD YEAR CLASS.

Alexander, Robert DuBose, A.B.	Oak Ridge, La.
Ambrister, Joseph Campbell	Norman, Okla.
Anderson, Orville Bradley	Keytesville, Mo.
Beeson, John Pierce	Noel, Mo.
Betts, Clarence Earnest	Hammond, Ills.
Brewster, Bert Marion	Macedonia, Mo.
Bribach, Eugene John	St. Louis, Mo.
Brossard, Pierre Mayerie	Kirkwood, Mo.
Chalkley, A. Judson, A.M.	Big Stone Gap, Va.
Cline, Harry X.	Marion, Ills.
Cook, Jerome Epstein	St. Louis, Mo.
Craske, Harry Barton	Rushville, Ills.
Doron, Paul Rimer	Celina, O.
Eckel, Oscar Franklin	Edinburg, Ills.
Fildes, Vernon Sylvester	Louisville, Ills.
Fischel, Walter, A.B.	St. Louis, Mo.
Goodman, Dan Carson	Springfield, Ills.
Gregg, Arthur Mitchell	Joplin, Mo.
Griffith, Harry Melvin, Ph.B.	Mt. Ayr, Iowa.
Guggenheim, Louis Kaufman	St. Louis, Mo.
Hale, Jesse Wilbert	Bellevue, Mo.

NAMES.	RESIDENCE.
Hamilton, Buford Garvin	Fargo, N. D.
Hastings, James Barnard	Upper Alton, Ills.
Hawkins, George Giles	Paris, Mo.
Hayward, Joseph William	Paris, Idaho.
Hirsch, Albert	Girard, Ills.
Hooss, Charles Henry Albert	Perryville, Mo.
Huelsmann, Leo C., A.B.	St. Louis, Mo.
Jacobs, Max William, A.B.	St. Louis, Mo.
James, Jasper Milton	Sellers, Ills.
Kern, Bert Chamberlain	Colorado Springs, Colo.
Klenk, Charles Leonard	St. Louis, Mo.
Knewitz, Otto	New Athens, Ills.
Kniseley, Harry B.	Checotah, Ind. Ter.
Kress, Clarence Cameron	Jefferson Barracks, Mo.
Lane, George Garfield	Rich Hill, Mo.
Lightner, Oscar Newton	Wichita, Kans.
Lincoln, Harry F., Jr.	Kirksville, Mo.
Lumley, Zoda D.	Kampsville, Ills.
McAmis, Leon Clifford, Ph.B.	St. Louis, Mo.
McKnelly, Charles Everett, A.B.	Bible Groves, Ills.
McMillan, Paul D.	Maryville, Mo.
McMurdo, William Wilford	Marissa, Ills.
McNutt, James Carson, A.B.	Hammond, Ills.
Minton, William Henry	Fortescue, Mo.
Moore, Sherwood	Lynchburg, Va.
Nalley, Thomas J., Jr.	Louisiana, Mo.
Nettles, Frank Henry, Ph.G.	Cape Girardeau, Mo.
Nix, William Henry	Carpenter, Ills.
Nuss, Oscar William	Louisville, Ky.
Owen, Henry Morrison	Newport, Ark.
Park, George M.	St. Louis, Mo.
Riess, John Turk	Red Bud, Ills.
Rose, Charles Milton	Benton, Ills.
Schlernitzauer, Robert A.	Millstadt, Ills.
Senseney, Eugene Towner, A.B.	St. Louis, Mo.
Sheahan, Edwin L., A.M.	St. Louis, Mo.
Shields, Daniel Francis	St. Louis, Mo.
Smith, Seth Paine	St. Louis, Mo.
Strode, Robert Caldwell	New London, Mo.
Thomas, Earl	Denver, Colo.

NAMES.	RESIDENCE.
Thompson, Henry Herbert, B.S., A.M.	Nashville, Ills.
Van Meter, Eugene B.	Elkhart, Ills.
Vonnahme, Conrad Benedict	East St. Louis, Ills.
Weisert, Charles	St. Louis, Mo.
Wilson, Elisha Hall Gregory	Cape Girardeau, Mo.
Wilson, Robert Manton	Columbus, Ark.
Wobus, Reinhard E.	Quincy, Ills.
Wright, Chauncey Goodrich, B.Sc.	Oberlin, O.
Zell Augustine M.	St. Louis, Mo.
	Total, 70.

FOURTH YEAR CLASS.

Austin, Adelbert Morton	Mendon, Ills.
Bader, George Washington, Ph.G.	Belleville, Ills.
Baldwin, Paul	Kennett, Mo.
Ball, Cleo Cleveland	Ravenden, Ark.
Ball, James Edwin, Jr.	Richmond, Mo.
Beall, Homer E.	Malden, Mo.
Beckert, John Henry, A.B.	St. Louis, Mo.
Bolton, John Frederick, A.B.	Eureka Springs, Ark.
Brandt, Frederick Arnold	St. Louis, Mo.
Brown, Anderson Fletcher	Malta Bend, Mo.
Brownfield, Samuel Tilden	Richmond, Mo.
Calhoun, Delane Stow	Sumpter, La.
Cannon, Harry	Cresco, Ia.
Chapman, Richard Augustus	Liverpool, Eng.
Clapper, William Louis	Unionville, Mo.
Conway, William Quarles	Lamont, Mo.
De Menil, Henry Nicholas	St. Louis, Mo.
Dickerson, Harry William	Indianapolis, Ind.
Eastman, Claude Washington	Pullman, Wash.
Evans, John Lillie	Washington, Ind.
Feuerborn, Henry Rudolph	St. Louis, Mo.
Fink, Frank Clarence	Pleasant Plains, Ills.
Freund, Newton Marion	St. Louis, Mo.
Friedeberg, Arthur Hugo, Ph.G.	St. Louis, Mo.
Fujimori, Naokazu, M.D.	Tokyo, Japan.
Fuller, Allen Garfield	St. Louis, Mo.
Garstang, Donald Buie	St. Louis, Mo.

STUDENTS.

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NAMES.	RESIDENCE.
Gauen, George Otto	Waterloo, Ills.
Griffin, Fred	Nokomis, Ills.
Hope, Daniel Howard	Shawneetown, Mo.
Horwitz, Alexander Earle, A.B.	St. Louis, Mo.
Hudson, John Rogers, Ph.B., M.D.	St. Louis, Mo.
Jones, Harry Lander, A.B.	Blaser, Mo.
Keithley, Chiles Lester, A.B.	Cincinnati, Mo.
Keller, Jacob Molier	Steelville, Ills.
Kilpatrick, George Alexander	Wilburton, I. T.
Kirby, Franklin Beverly, A.B.	Harrison, Ark.
Koenig, George Washington	St. Louis, Mo.
Kroeger, George Baldwin	St. Louis, Mo.
LeBien, Ernest Albert, Ph.G.	Lincoln, Kans.
Lenz, Herman John	Eau Claire, Wis.
Lester, Rollo Bertell	Valle Mines, Mo.
Lischer, Robert Franklin	Mascoutah, Ills.
Long, Frank Leo	De Soto, Mo.
Maloy, Earl Dee	Lometa, Tex.
Marnell, Frank Sterling.	Nebraska City, Neb.
Martin, John Galbraith	Hughesville, Mo.
Mayes, Earle Garfield	Illio polis, Ills.
Mayes, Joseph Frank, Ph.B.	Pryor Creek, I. T.
Monday, Lewis Robert	Stoutland, Mo.
Nolan, John Alonzo	Millstadt, Ills.
Rohlfing, Arthur Hermann	St. Louis, Mo.
Runde, Fredrick William, Ph.G. M.D.	Kampsville, Ill.
Scholz, Roy Philip	St. Louis, Mo.
Shahan, William Ewing, A.B.	St. Louis, Mo.
Singer, Jacob Jess	St. Louis, Mo.
Snodgras, Charles Alvin.	St. Louis, Mo.
Stayner, Ira Clarence	Spencerville, O.
Terry, Harry Alfred	Prophetstown, Ills.
Tooker, Charles William, Jr.	St. Louis, Mo.
Weber, Frank Joseph	Olney, Ills.
Whaley, Roy Wallace	Browning, Mo.
Wolter, Otto Leonard	Otter Tail, Minn.
Woodbridge, Jahleel Hamner	Marshall, Mo.
Yerkes, Lathy Leverett	Upper Alton, Ills.

Total, 65.

GRADUATE STUDENTS.

NAMES.	RESIDENCE.
Davis, Louis H., M.D.	St. Louis, Mo.
Elsey, James Ralph, M.D.	Chokio, Minn.
Harrison, George William, M.D.	Albuquerque, New Mex.
Hutton, John Wesley, M.D.	Wichita, Kansas.
Poignée, Frank P., M.D.	St. Louis, Mo.
Renfrow, T. Frank, M.D.	Billings, Okla.
Smith, Ulysses Scott, M.D.	Desloge, Mo.
Von Phul, Philip, M.D.	St. Louis, Mo.
Vardy, Philip N., M.D.	Estelline, Tex.
Wheeler, William M., M.D.	High Hill, Mo.
	Total, 10.

OTHER MATRICULANTS.

Baker, Melvin Franklin, Ph.G.	Eldina, Iowa.
Brand, Eli Thomas	Bonne Terre, Mo.
Calaway, William Lawrence	Bethesda, Ark.
Cox, Arthur William	Iola, Kansas.
Crawford, John J.	Verde, Colorado.
Dickson, J. L., D.D.S.	Chinook, Mont.
Holliday, Joel Reading	Duncan, Ind. Ter.
Knight, William Everett	Newburn, Ills.
Lytle, Garnet Crawford	St. Louis, Mo.
Mason, Curtis	Chicago, Ills.
Olds, Nelson Albert	Medical Lake, Wash.
Tooly, Logan	Keytesville, Mo.
Zimmerschied, Albert Ferdinand	St. Louis, Mo.
	Total, 13.

Freshmen	61
Sophomores	60
Juniors	70
Seniors	65
Graduate Students	10
Other Matriculants	13
Total	279

GRADUATES, 1903.

The Annual Commencement was held on Thursday, May 8th, 1903, when Professor Elisha Hall Gregory, M.D., delivered an address to the Graduating Class, and the Chancellor of the University conferred the Degree of Doctor of Medicine upon the following gentlemen, viz. : —

Althans, Carl
Benner, William John
Buchanan, James McAfee
Cobean, Harry Lester
Cochran, Francis Bruce
Coffey, Lee Mathew
Davie, Joseph
Doyle, William Joseph, M.D.
Estil, Forrest Leon
Fahlen, Fred
Faulbaum, Adolph William, Ph.G.
Fuhrmann, Richard Henry
Gable, Edwin Otis
George, Charles Albert
Gordon, Frank Newton, A.B.
Guhman, Charles Nicholas
Hinkle, Charles Garland
Horton, Warren Nichols
Howard, David Fount
Hunker, Lewis, Jr.
Jungk, Charles George Washington
Kimball, Arthur Campbell, A.B.
Klie, Constantine Martin Tenz, Ph.G.
Klinefelter, Marion Luther
McBratney, Emmet T. Wm., Ph.G.
McQuillan, Albert Baptiste
Mairs, Edward Joseph

Moeller, Carl Emil-Otto
Myerdick, Alb. Hoffman, M.S., M.D.
Nies, Frederick Henry
Pace, Henry
Pierce, Clarence Eugene, Ph.G.
Pierce, William
Rawlings, Claude Llewellyn
Reuss, Albert Le Roy
Scheve, Elmer Fredrick
Schreiber, Adam William
Scott, Clive Douglass, A.B.
Simpson, James
Smith, Newton Elliot
Spannagel, William Christian, Ph.G.
Stiers, Fred Loren
Switzer, Clyde
Thompson, Herbert Lloyd
Trueblood, William Alfred, M.A.
Tuholske, Moritz C.
Walker, George William
Welch, William Alexander
Wilson, Harlow Vernon
Williams, Dudley Boone, A.B.
Winn, Richard Marvin
Worden, George Kent
Wright, Charles Oscar

HOSPITAL APPOINTMENTS.

The students and graduates of the Medical Department, Washington University, are entitled to compete on equal terms with those of other colleges for positions on the resident staff of the St. Louis City and Female Hospitals, and appointments are made from the graduating class each year to the following: Mullanphy, St. Anthony's, Polyclinic, Bethesda, Baptist Sanatarium, Insane Asylum, Poor House.

JUNE 1, 1903.

This year thirty positions as internes at the St. Louis City and Female Hospitals were awarded after competitive examination conducted by the Board of Health. Twenty-six graduates of the class of 1903 took the examinations and the following twenty-two have received appointments, viz. : —

Dr. Carl Althans.
Dr. J. M. Buchanan.
Dr. F. B. Cochran.
Dr. Joseph Davie.
Dr. F. N. Gordon.
Dr. C. G. Hinkle.
Dr. W. N. Horton.
Dr. Lewis Hunker.
Dr. C. G. W. Jungk.
Dr. A. C. Kimball.
Dr. F. H. Nies.

Dr. H. Pace.
Dr. C. E. Pierce.
Dr. William Pierce.
Dr. C. L. Rawlings.
Dr. E. F. Scheve.
Dr. A. W. Schreiber.
Dr. C. D. Scott.
Dr. W. C. Spannagel.
Dr. H. L. Thompson.
Dr. M. C. Tuholske.
Dr. H. V. Wilson.

PROMOTIONS AND OTHER HOSPITAL APPOINTMENTS.

JUNE 1, 1903.

CLASS 1901.

Dr. W. C. G. KIRCHNER Asst. Supt. City Hospital.

CLASS 1902.

Dr. A. L. BRANDT Senior Asst. City Hospital.

Dr. C. P. GLAHN, JR. Senior Asst. City Hospital.

Dr. J. M. PFEIFFENBERGER . . Senior Asst. City Hospital.

Dr. R. D. RILEY Senior Asst. City Hospital.

CLASS 1903.

Dr. W. J. DOYLE Asst. Supt. City Hospital.

Dr. W. J. BENNER Interne Baptist Sanitarium.

Dr. FRED. FAHLEN Interne Mullanphy Hospital.

Dr. R. H. FUHRMANN Junior Asst. Obstetrical Out-Clinic.

Dr. C. O. WRIGHT Interne St. Anthony's Hospital.

Dr. P. W. FLAGGE Resident Physician Polyclinic Hospital.

*Dr. _____ Resident Physician O'Fallon Dispens'y.

* Position not filled.

PRIZES AND HONORS.

GILL PRIZE IN ANATOMY.

Henry Hodgen Kirby.

HONORABLE MENTION.

J. C. Bowman, E. S. Clark, E. B. Jones, Marsh Pitzman,
F. J. Sullivan, R. H. Bodine.

GILL PRIZE IN DISEASES OF CHILDREN.

Dr. Arthur Campbell Kimball.

CURTMAN PRIZE IN CHEMISTRY.

John Clark Bowman.

HONORABLE MENTION.

J. W. Gray, A. Gundlach, H. H. Kirby, T. A. Lawler,
S. P. Martin.

HONORABLE MENTION.

The following graduates received publicly honorable mention
for general excellence in the work of the course: —

Dr. Fred Fahlen,
Dr. Lewis Hunker,
Dr. A. C. Kimball,

Dr. M. L. Klinefelter,
Dr. E. W. McBratney,
Dr. H. Pace,
Dr. M. C. Tuholske.

RULES FOR THE GUIDANCE OF STUDENTS.

Definite times are set for holding the examinations of each half-year's work (see Calendar). If for any reason a student wishes an examination at any other than the regular times, he may have it with the consent of his instructor and on the payment of a fee of five dollars to the Registrar.

Examinations in all lecture courses will be conducted in writing, and the value of the returned papers will be indicated by the letters, A, B, C, D and E, which expressed in percentages are: —

A	90 to 100	per cent,
B	75 to 90	“ “
C	65 to 75	“ “
D	40 to 65	“ “
E	Below 40	“ “

The grade C is the lowest which a student may receive and yet pass an examination. The grade D implies that the student is conditioned and must take the examination over again; while the grade E signifies an absolute failure and a student receiving this mark must repeat the course in which he has failed before he can have another examination.

A student conditioned a second time in a given subject must take the subject again in class before he will be re-examined in it.

Two years is the maximum time allowed for the accomplishment of one year's work. A student failing to comply with this regulation shall be compelled to withdraw from the School.

No credit will be given to a student for a year's work until he has satisfactorily completed all work for preceding years.

A student who is allowed to take advance work shall receive

no credit for that work until he has completed the studies of the year to which such course or courses belong.

A student who fails of promotion shall be required to pursue and pass examinations in all work of the class to which he belongs. Such students, moreover, shall pay full tuition for four consecutive years spent in this school and none thereafter. Students must pay laboratory fees for every laboratory course taken.

Students are responsible for their behavior, and the Faculty reserves the right to terminate the connection of any student with this institution if, for any cause, he shall prove himself unfit to pursue his professional studies.

CLINICAL HISTORIES.

Records of the diagnoses and treatments made and prescribed by students of the Third and Fourth Years are kept in the books of the several clinics where they are entered by the students themselves. Following are three histories which will serve as examples of the kind of work done in the last two years of the course.

POLYCLINIC HOSPITAL.

DEPARTMENT OF DERMATOLOGY.

APRIL 7, 1904.

A. G., Italian, 20 years of age.

This patient presents an eruption involving the forehead, arms, trunk and legs, which upon hasty inspection leads us to think of the *Pustular Syphilide* and the *Pustular Stage of Variola*.

Patient complains of no headache, no pain, and no sensation of itching. His temperature is 99.8, pulse 108. He looks rather anaemic and debilitated. He denies having had any venereal trouble, in fact denies sexual congress entirely. He states that

this eruption came on about three weeks ago without apparent cause.

THE LESIONS.

On the forehead and scattered here and there about the trunk, arms and legs, were found papules of a dark red hue, some pin-head in size, others somewhat larger. Pressure upon these caused a momentary paling of the surface. In other situations, particularly upon the back and about the shoulders posteriorly, pustules were present, in shape round and about the size of a split pea, and placed upon a papular dark red base, some acuminate, others lenticular. Some of these possessed near their summit a collarette of a grayish-white color, giving the appearance of inspissated pus. Some presented above this collarette the appearance of undergoing incrustation and desquamation. Others again were pitted in their center, a few showing a pinpoint spot in the center of the depression resembling clotted blood. Our presumption was that these were perhaps scratched and had bled.

About the chest the eruptions were not so extensive and showed more of a tendency to remain discreet, while on the back they were confluent in patches, presenting a grouped appearance. They were likewise thickly set upon the arms and legs, grouped chiefly about the extensor surfaces. Two parallel rows were noticed extending diagonally across the right scapular region. The inferior inguinal glands on both sides were greatly enlarged, one on the left side being about the size of a large walnut. Epi-trochlears and posterior cervicals also enlarged. However, we did not attach much importance to this, knowing that any infection so general as this would cause the same glandular enlargement. There were no mucous patches in the mouth; no fissures or erosions of the tongue. The scalp was free from eruption. *Chancre*: — On the dorsum of the penis, in the mucous membrane of the prepuce behind the corona glandis, was found a nodular, indurated mass about the size of a split-pea and presenting a raw surface. This was taken for the initial lesion pre-

ceding what we have diagnosed as a *Secondary Syphilitic Eruption*, consisting principally of the *Large Pustular Syphilide*.

The absence of pain and itching, the multiformity and symmetrical distribution of lesions and annular configuration were taken into consideration as concomitant features in arriving at the diagnosis.

AS TO DIFFERENTIATING THIS FROM VARIOLA.

A widespread pustular rash in syphilis, particularly if accompanied by fever, might resemble smallpox. However, if this were the pustular eruption of variola we should expect a more uniform eruption, that is, the lesions all corresponding to the pustular type, and we should *not* expect to find here papules, there pustules, some acuminate, some lenticular, others pitted, and still others undergoing incrustation and desquamation. The question has here arisen, "Might we not have a variola with some intercurrent eruption that would prove confusing through its multiformity of lesions?" But there is a more extensive area of injection about the pustules of variola with swelling of the skin between them, and this is attended with considerable tension and pain in the face. Swelling may be so great as to completely close the eyelids. The peculiar shot-like feel has been spoken of in connection with smallpox. We should also expect the face to be attacked with greater severity than it was in this case. Then there is the fever of maturation attendant upon the transformation from vesicles to pustules about the eighth day. The manner in which the pustules dry in variola, first on the face and then in other parts in the order of their appearance until at the end of two weeks or so desquamation is far advanced on the face. In this case we find new eruptions making their appearance in various situations, while others are apparently receding, forming crusts.

Lastly, in this case our history was rather indefinite, but with an intelligent accounting of the distribution of lesions, together

with the greater constitutional disturbance such as the initial chill, the headache, the backache, and the vomiting, should aid us in clearing up the question of a diagnosis.

H. W. DICKERSON, Student of Medicine.

C. W. EASTMAN, Student of Medicine.

H. R. FEUERBORN, Student of Medicine.

POLYCLINIC HOSPITAL.

DEPARTMENT OF MEDICINE.

L. J. Admitted March 18th, 1904. Age, 21. Occupation, Waiter. Nationality, American. Colored. Single. Residence, St. Louis.

FAMILY HISTORY.

Father dead; cause of death, unknown. Mother living; has always been in good health. Has one brother and one sister; both living; always enjoyed good health so far as patient knows.

HABITS.

Does not dissipate; keeps regular hours. Smokes cigarettes, averaging about five daily. Has been smoking for a number of years. Drinks beer in moderation, but does not use whisky or other strong alcoholic drinks. Has no drug habits.

PREVIOUS ILLNESS.

Had measles when fourteen years of age; duration, one week; made a good recovery and suffered from none of its sequelae. Patient thinks he had "grippe" three years ago, but did not consult a physician. At that time he complained of stiffness and soreness in all of his limbs and had a generally languid feeling; was not disposed to exert himself. This spell of illness lasted

about two months. He had no cough; no headache; no lachrymation; and no gastro-intestinal disturbances, but thinks he had some fever. About four years ago he had a left inguinal adenitis (bubo). This he expresses as becoming soft in about two weeks when it was lanced. The physician who lanced it said it contained an admixture of blood and pus. No history of specific infection. He had no bladder disturbance accompanying this trouble; neither excessive, painful, nor difficult micturition. About two years ago he had an abscess about the size of a walnut in the right supra-clavicular fossa, situated at the base of the subclavian triangle behind the posterior border of the sternomastoid, the scar of which is still visible. Spontaneous rupture occurred. No pus exuded, but the patient describes the contents as "a stringy mass" — "a core." Last November he developed another small abscess in the right chest wall, which is best described in connection with the present trouble.

PRESENT ILLNESS.

Patient comes to the clinic because of a swelling which lies to a great extent in the right hypochondriac and to a lesser extent in the epigastric region. It extends from the upper border of the sixth to the lower border of the eighth rib, and is about three inches in diameter. It is smooth; not movable; not inflamed; firm; resistant; and there is some fluctuation. It does not pain constantly but he says that at times he suffers a peculiar pain as though being pricked with a number of pins. When he tries to lift even a tray, the pain becomes more evident and radiates to the right and upward toward the axilla. It does not trouble him at night except when he lies on the affected side. At times, however, he says he can lie on the right side with apparent comfort, when suddenly he is seized with pain. It does not pain on pressure. When he moves, he says it feels as though something were pulling in that region; as though the parts were bound down. The muscles around the swelling are tense.

Patient first noticed this beginning swelling last November, and in about two and a half days it had attained almost its present size. Then it enlarged more slowly up to about three weeks ago when he says it apparently remained stationary. It is now but very little larger than it was last November. Just at the upper margin of this swelling, and close to the right border of the sternum, a scar is visible, due to the rupture (spontaneous) of an abscess in this situation. This abscess, about the size of a small walnut, developed about two months before the swelling for which he now seeks relief. Spontaneous rupture occurred and a greenish fluid exuded. Patient's appetite is good; says he can eat anything. Suffers no digestive disturbances; bowels regular; no headaches. Passes his urine about three or four times daily; no nocturnal micturition, except when he retires early, when he sometimes arises once during the night. On the night of March 21st he had a slight night sweat. Has no chilly sensations. Was losing strength before the swelling was tapped, but now feels strong.

INSPECTION.

Patient looks well nourished; eyes bright; pupils equal; react to light; color of conjunctiva normal. Throat and tongue show nothing abnormal; no enlargement of tonsils; no mucous patches; no Hutchinson's teeth. Thorax is symmetrical excepting for the swelling just described. Respiration is abdominal; 22. Apex beat is discernible in the fifth interspace, mammary line. It is forcible and diffused upward and to the right toward the sternum. There is a slight pulsation in the muscles of the neck synchronous with the apex impulse.

PALPATION.

Submaxillary Lymphatics slightly enlarged; axillary glands enlarged, one on each side the size of a small hazel-nut. No en-

largement of epitrochlear glands; no enlargement of post-cervical glands. Chest: Tactile fremitus, normal. Apex beat felt in the fifth interspace, displaced to the left in the mammary line. Cardiac impulse forcible and diffused upward and to the right toward the sternum. Pulse full and regular; tension good. Both radials are equal. Finger tips and hands, cold. Patient says they are always that way. I could detect no enlargement of the spleen.

PERCUSSION.

Lungs — normal; vesicular resonance. Heart — superficial cardiac dullness at the upper border of the fourth rib. Liver — absolute dullness at upper border of sixth rib. Note: Swelling present interferes somewhat with percussion of right border of heart; also with the liver.

AUSCULTATION.

Lungs — normal; vesicular breathing. Inspiration and expiration on the right side equal as regards rhythm and duration; left side expiration heard, but feebly. Heart — first sound heard best in the mitral area, in the region of the apex, is loud, booming, and has a somewhat metallic ring. It is apparently accentuated. Second sound heard over the sternum in the second interspace is normal, but weak by comparison with the first sound.

URINARY EXAMINATION.

Reaction — slightly acid; sp. gr. 1023; albumin none.

GENERAL CONDITION.

Temperature 99°.6; pulse 72; resp. 22; weight 137-1/2; no pain.

(History taken and examination made, March 22d, 1904)

March 18. — Temp. 99°.7; pulse 90; tumor aspirated; obtained about 50 c.c. of a pus-like fluid, consisting chiefly of detritus with very few pus cells.

March 19. — Temp. 99°.7; pulse 100; resp. 24; weight 132-3/4; no pain.

℞ Hydrargyri Chloridi Corrosivi 0.1
 Sodii Chloridi 1.0
 Aquae Distillatae 10.
 Signa: 1 m three times daily.

℞ Kali Iodidi 15.
 Aquae Distillatae, q.s. ad. . 15.
 Signa: 5 m three times daily.
 Increase 1 m with each dose.

March 23. — Temp. 99°.6; pulse 70; no pain.

(Dr. Taussig reports having gotten a culture from the contents of the swelling, but as yet has not determined the nature of it.)

March 25. — Temp. 99°.4; pulse 76.

Inoculation of agar-agar with contents of swelling yielded no culture; hence sterile. Inoculation with contents of sinus above the swelling showed the characteristic growth of the staphylococcus pyogenes aureus.

DIAGNOSIS.

The examination was made with tuberculosis and lues in mind.

The absence of a history of syphilis and the persistent denial by the patient of an initial lesion, together with absence of enlargement of the epitrochlear glands; absence of enlargement of the post-cervical glands; absence of mucous patches in the mouth and throat; absence of Hutchinson's teeth; and the presence of enlarged submaxillary lymphatic glands and axillary glands; and the situation of the various abscesses mentioned, leads us to incline toward tuberculosis. Inability to demonstrate tuberculosis elsewhere is, however, against this. Then, too, we must take for granted, that the patient is telling the truth when he denies all questions pertaining to lues. No absolute diagnosis was made.

March 30. — Temp. 98°.8; pulse 72; weight 133 1-4 lbs.

Complains of great and almost constant pain in the second

and third phalangeal joints; this is much increased on pressure. Both hands are involved. These joints are much swollen. Metacarpophalangeal joints are not involved. He has had no night sweats since the one on March 21st, and now thinks that one was due to a change of beds. He is now taking 26 m of K I per dose. Is restless at night.

Blood examination was made to-day: —

Haemaglobin	60%
Red cells	4,000,000
White cells	10,500

April 12. — Dr. Tuholske to-day made an incision into the swelling which had greatly enlarged, even under the influence of antisyphilitic treatment, and a large quantity of pus-like material exuded. Dr. Tuholske pronounced it tubercular in nature.

H. R. FEUERBORN, Student of Medicine.

F. A. BRANDT, Student of Medicine.

POLYCLINIC HOSPITAL.

DEPARTMENT OF DERMATOLOGY.

Patient: J. R., age, twenty-five years; occupation, tobacco worker.

Present trouble began about three weeks ago. The first eruption was on the back of neck; onset gradual; says face was somewhat swollen; also says there is some itching and burning.

INSPECTION.

Eruption is symmetrical and grouped. Some small papules, few pustules and many macules and wheals on the back of neck, on face, back of shoulders, buttocks between nates, small of back, outer side of elbows and thighs, and in popliteal spaces.

The axillae are clear. Some of the papules are situated on an indurated base, the color of which faded on pressure. The many wheals which are present are dark-red, rather glossy, fade on pressure, irregular in shape and not sharply delineated. There are also present some brown pigmented areas, probably the result of previous lesions.

There are a few of the eruptions which have crusts. On removing these crusts the lesion presented the red appearance above described.

Diagnosis: Dermatitis Herpetiformis.

(Signed) F. GRIFFIN, Student of Medicine.
H. CHAPMAN, Student of Medicine.
N. M. FREUND, Student of Medicine.

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